AUTHOR INDEX

Abraham, F., J.C. Boivin, G. Mairesse and G. Nowogrocki, The BIMEVOX series: A new family of high performances oxide ion conductors	40/41 (1990)	934
Abrahams, I., see P.G. Bruce	40/41 (1990)	293
Adachi, G., see H. Aono	40/41 (1990)	38
Adachi, H., see T. Matsushima	40/41 (1990)	825
Ado, K., see Y. Saito	40/41 (1990)	34
Ado, K., see J. Mayne	40/41 (1990)	67
Ado, K., see Y. Saito	40/41 (1990)	72
Ado, K., see H. Kageyama	40/41 (1990)	350
Aka, G., B. Dunn, J. Foreman and G.C. Farrington, Crystal growth and transport properties of sodium β and β″-aluminogallates	40/41 (1990)	83
Akamatsu, Y., see M. Tatsumisago	40/41 (1990)	828
Amano, E., see J.T.S. Irvine	40/41 (1990)	220
An, S., T. Zhou, W. Wu and Q. Liu, Investigation of electronic conductivity and thermal shock stability for MgO partially stabilized zirconia	40/41 (1990)	750
Angell, C.A., see M. Tatsumisago	40/41 (1990)	828
Aniya, M., H. Okazaki and M. Kobayashi, Liquid-like model for the ultrasonic attenuation in superionic conductors	40/41 (1990)	209
Aniya, M. and M. Kobayashi, Collective motion in fast ion conductor superlattices	40/41 (1990)	216
Antonio, G.A., see P. Vashishta	40/41 (1990)	175
Aoki, S., see Y. Yamaguchi	40/41 (1990)	628
Aono, H., E. Sugimoto, Y. Sadaoka, N. Imanaka and G. Adachi, Ionic conductivity and sinterability of lithium titanium phosphate system	40/41 (1990)	38
Arai, H., see T. Inoue	40/41 (1990)	407
Arai, H., see T. Setoguchi	40/41 (1990)	502
Arashi, H., H. Naitoh and M. Ishigame, Temperature dependence of XANES in CeO_2–$Tb_2O_{3.5}$ mixed conductor	40/41 (1990)	539
Asai, T., see Y. Saito	40/41 (1990)	34
Asai, T., see J. Mayne	40/41 (1990)	67
Asai, T., see H. Kageyama	40/41 (1990)	350
Asano, M., see J. Kuwano	40/41 (1990)	472
Atake, T., H. Kawaji and T. Nakamura, Heat capacity of two-dimensional mixed conductor $NaCrS_2$	40/41 (1990)	572
Atlung, S., see B. Zachau-Christiansen	40/41 (1990)	580
Aukselis, S., see A. Orliukas	40/41 (1990)	158
Awano, T., M. Ikezawa, T. Matsuyama and H. Yamaoka, Color centers in superionic conductors of $RbAg_4I_5$ and KAg_4I_5	40/41 (1990)	324
Bach, S., see J.P. Pereira-Ramos	40/41 (1990)	970
Badwal, S.P.S., see A.E. Hughes	40/41 (1990)	312
Badwal, S.P.S. and J. Drennan, Evaluation of conducting properties of yttria-zirconia wafers	40/41 (1990)	869

Badwal, S.P.S. and N. Nardella, Polarization studies on solid electrolyte cells with a fully automated galvanostatic current interruption technique	40/41 (1990)	878
Badwal, S.P.S., F.T. Ciacchi and R.H.J. Hannink, Relationship between phase stability and conductivity of yttria tetragonal zirconia	40/41 (1990)	882
Baffier, N., see J.P. Pereira-Ramos	40/41 (1990)	970
Bakiewicz, J., see I.C. Vinke	40/41 (1990)	886
Balaya, P. and C.S. Sunandana, ESR of Ag^{2+} in $60AgI–30Ag_2O–10B_2O_3$ glass	40/41 (1990)	700
Bandaranayake, P.W.S.K., see M.A.K.L. Dissanayake	40/41 (1990)	23
Bandaranayake, P.W.S.K. and B.-E. Mellander, Phase transitions and ionic conductivity of the $Na_2SO_4–MgSO_4$ system	40/41 (1990)	31
Bando, Y., see K. Kamigaki	40/41 (1990)	815
Belzner, A., U. Bischler, S. Crouch-Baker, T.M. Gür, G. Lucier, M. Schreiber and R.A. Huggins, Recent results on mixed conductors containing hydrogen or deuterium	40/41 (1990)	519
Belzner, A., T.M. Gür and R.A. Huggins, Measurement of the chemical diffusion coefficient of oxygen in mixed conductors by a solid state electrochemical method	40/41 (1990)	535
Bentzen, J.J. and H. Schwartzbach, Electrical conductivity, structure, and thermal expansion behaviour of $ZrO_2–CeO_2–Gd_2O_3–Y_2O_3$ solid solutions	40/41 (1990)	942
Besenhard, J.O., M. Hess and P. Komenda, Dimensionally stable Li-alloy electrodes for secondary batteries	40/41 (1990)	525
Bhoga, S.S. and K. Singh, Influence of LiX (X=F, Cl and Br) addition on the ionic conductivity of $6Li_2SO_4:4Li_2CO_3$ eutectic system	40/41 (1990)	27
Bhoga, S.S., see K. Singh	40/41 (1990)	1025
Bilde-Sørensen, J.B., see F.W. Poulsen	40/41 (1990)	947
Billaud, D., see C. Hérold	40/41 (1990)	985
Bischler, U., see A. Belzner	40/41 (1990)	519
Boivin, J.C., see M. Omari	40/41 (1990)	929
Boivin, J.C., see F. Abraham	40/41 (1990)	934
Boivin, J.C., see C. Follet-Houttemane	40/41 (1990)	938
Boris, A.V., S.I. Bredikhin and N.N. Kovaleva, Investigations of the near electrode regions in superionic $RbAg_4I_5$ crystals	40/41 (1990)	266
Boris, A.V. and S.I. Bredikhin, Interface charge transport and the electronic conductivity of $RbAg_4I_5$ solid electrolytes	40/41 (1990)	269
Boris, A.V. and S.I. Bredikhin, Photo EMF in $RbAg_4I_5$ solid electrolyte	40/41 (1990)	272
Börjesson, L., see S.H. Chung	40/41 (1990)	279
Börjesson, L. and W.S. Howells, Intermediate range structural ordering in AgI doped superionic glasses: A neutron diffraction study	40/41 (1990)	702
Boukamp, B.A., see I.C. Vinke	40/41 (1990)	886
Braun, M., see K.W. Kehr	40/41 (1990)	167
Bredikhin, S.I., N.N. Kovaleva and N.V. Lichkova, The effect of point defects on the ionic conductivity of $RbAg_4I_5$ solid electrolytes	40/41 (1990)	180
Bredikhin, S.I., see A.V. Boris	40/41 (1990)	266
Bredikhin, S.I., see A.V. Boris	40/41 (1990)	269
Bredikhin, S.I., see A.V. Boris	40/41 (1990)	272
Breiter, M.W., see H. Durakpasa	40/41 (1990)	115
Breiter, M.W., see A. Pinkowski	40/41 (1990)	822
Bruce, P.G., I. Abrahams and A.R. West, Defect clustering in LISICON solid electrolytes	40/41 (1990)	293

Bruce, P.G. and C.A. Vincent, Transport in associated polymer electrolytes	40/41 (1990)	607
Bunde, A., see W. Dieterich	40/41 (1990)	184
Bunde, A., P. Maass, H.E. Roman, W. Dieterich and J. Petersen, Transport on disordered structures: Effect of long range interactions	40/41 (1990)	187
Bunde, A., H.E. Roman and S. Havlin, Time dependent correlation functions of diffusing particles in random systems	40/41 (1990)	192
Burggraaf, A.J., see I.C. Vinke	40/41 (1990)	886
Cao, Q.J., see T. Itoh	40/41 (1990)	620
Careem, M.A., see M.A.K.L. Dissanayake	40/41 (1990)	23
Catti, M., C.M. Mari, E. Cazzanelli and G. Mariotto, Raman study and electrical conductivity of $HTaMO_6 \cdot H_2O$ (M=W and Te)	40/41 (1990)	900
Cazzanelli, E., see G. Mariotto	40/41 (1990)	334
Cazzanelli, E., see M. Catti	40/41 (1990)	900
Chaminade, J.P., see C. Delmas	40/41 (1990)	560
Champarnaud-Mesjard, J.C., see C. Follet-Houttemane	40/41 (1990)	938
Chandra, S. and A. Kumar, Electrogravimetric analysis – a potential technique for studying proton conducting hydrates	40/41 (1990)	255
Chandra, S. and S.A. Hashmi, Humidity sensor using a proton conductor ammonium paratungstate pentahydrate ($APT \cdot 5H_2O$)	40/41 (1990)	460
Chandra, S., S.A. Hashmi and G. Prasad, Studies on ammonium perchlorate doped polyethylene oxide polymer electrolyte	40/41 (1990)	651
Chandra, S. and A. Kumar, Proton conduction in some solid hydrates and KDP-ferroelectric family materials	40/41 (1990)	863
Chang, S.H., see C. Delmas	40/41 (1990)	560
Chang, S.H., see C. Delmas	40/41 (1990)	563
Charalwar, S.G., see V.K. Deshpande	40/41 (1990)	689
Chen, L., C. Sheng, R. Xue, M. Dong and Y. Chen, Study on EC Ni–O thin film and a new device	40/41 (1990)	495
Chen, L., Y. Xiao, S. Yang, R. Xue, L. Wang and L. Xin, Physical properties of a-FIC in $AgI–Ag_2O–P_2O_5$ system during crystallization process	40/41 (1990)	705
Chen, L., see X. Huang	40/41 (1990)	807
Chen, Y., see L. Chen	40/41 (1990)	495
Chia, W.T., see B.V.R. Chowdari	40/41 (1990)	684
Chiodelli, G., see K. Singh	40/41 (1990)	714
Chirkina, K.P., see L.N. Demianets	40/41 (1990)	836
Chowdari, B.V.R. and K. Radhakrishnan, Thin film studies on $Li_2O \cdot P_2O_5 \cdot Nb_2O_5$ based fast ion conducting glasses	40/41 (1990)	680
Chowdari, B.V.R., K.L. Tan, W.T. Chia and R. Gopalakrishnan, Thermal, electrical and structural characterization of $Li_2O \cdot P_2O_5 \cdot MoO_3$ glasses	40/41 (1990)	684
Chowdari, B.V.R., R. Gopalakrishnan and K.L. Tan, ESCA studies of fast ion conducting glasses	40/41 (1990)	709
Choy, J.H., see C. Delmas	40/41 (1990)	563
Chung, S.H., K.R. Jeffrey, J.R. Stevens and L. Börjesson, Non-exponential dynamics of silver ions in silver iodide doped silver borate glasses through NMR	40/41 (1990)	279
Ciacchi, F.T., see S.P.S. Badwal	40/41 (1990)	882
Conflant, P., see M. Omari	40/41 (1990)	929

Croce, F., S. Passerini, A. Selvaggi and B. Scrosati, Properties and applications of lithium ion-conducting polymers	40/41 (1990)	375
Crouch-Baker, S., see A. Belzner	40/41 (1990)	519
Dekeyser, Ja., see F. De Schutter	40/41 (1990)	754
Deknock, R., see F. De Schutter	40/41 (1990)	754
Delmas, C., S.H. Chang, M. Menetrier, K.S. Suh, J. Sengas and J.P. Chaminade, Lithium intercalation in LiW_3O_9F: An electrochemical and NMR study	40/41 (1990)	560
Delmas, C., S.H. Chang, D.Y. Noh and J.H. Choy, $FeMoO_4Cl$, a 2-D-structure for amine intercalation, a 3-D-framework in alkali metal intercalated compounds	40/41 (1990)	563
Demianets, L.N., B.P. Sobolev and K.P. Chirkina, Verneuil technique for crystal growth of high teperature superconducting Bi–Sr–Ca–Cu–oxides	40/41 (1990)	836
De Schutter, F., Ja. Dekeyser, R. Deknock, R. Jacobs and H. Tas, Surface conditioning of a sodium β-alumina based lithium sensor for lithium–lead blends	40/41 (1990)	754
Deshpande, V.K., S.G. Charalwar and K. Singh, Electrical conductivity of $Li_2O{\cdot}B_2O_3{\cdot}P_2O_5{\cdot}Li_2SO_4$ glass system	40/41 (1990)	689
De Vries, K.J., see I.C. Vinke	40/41 (1990)	886
Dieterich, W., J. Petersen, A. Bunde and H.E. Roman, Diffusion in a charged lattice gas – a Monte Carlo study	40/41 (1990)	184
Dieterich, W., see A. Bunde	40/41 (1990)	187
Dieterich, W., Recent developments in the theory of solid electrolytes	40/41 (1990)	509
Dissanayake, M.A.K.L., M.A. Careem, P.W.S.K. Bandaranayake, R.P. Gunawardane and C.N. Wijesekara, Electrical conductivity of the Li_2SO_4–Li_2WO_4 system	40/41 (1990)	23
Doi, A., Comment on Warburg impedance and related phenomena	40/41 (1990)	262
Doi, K., see A. Yasuda	40/41 (1990)	476
Dokiya, M., see N. Sakai	40/41 (1990)	394
Dokiya, M., see H. Yokokawa	40/41 (1990)	398
Dokiya, M., see T. Kawada	40/41 (1990)	402
Dong, M., see L. Chen	40/41 (1990)	495
Dorner, G., see H. Durakpasa	40/41 (1990)	115
Drache, M., see M. Omari	40/41 (1990)	929
Drennan, J., see S.P.S. Badwal	40/41 (1990)	869
Dunn, B., see J.O. Thomas	40/41 (1990)	63
Dunn, B., see G. Aka	40/41 (1990)	83
Durakpasa, H., G. Dorner and M.W. Breiter, Impedance studies of the system Pt/Pb β″-alumina/Pt	40/41 (1990)	115
Ebbsjö, I., see P. Vashishta	40/41 (1990)	175
Eguchi, K., see T. Inoue	40/41 (1990)	407
Eguchi, K., see T. Setoguchi	40/41 (1990)	502
Emura, S., see K. Koto	40/41 (1990)	288
Emura, S., see T. Moriga	40/41 (1990)	357
Esaka, T., T. Fujii, K. Suwa and H. Iwahara, Electrical conduction in $CaTi_{1-x}Fe_xO_{3-\delta}$ under low oxygen pressure and its application for hydrogen production	40/41 (1990)	544
Farrington, G.C., see C. Lane	40/41 (1990)	53
Farrington, G.C., see J.O. Thomas	40/41 (1990)	63

Farrington, G.C., see G. Aka 40/41 (1990) 83
Farrington, G.C., see Å. Wendsjö 40/41 (1990) 659
Farrington, G.C., see H. Yang 40/41 (1990) 663
Follet-Houttemane, C., J.C. Boivin, J.C. Champarnaud-Mesjard, D. Mercurio and B. Frit, Structural and single crystal conductivity characterization of fluorine pathways in a (Bi, Pb)(O, F) ionic conductor 40/41 (1990) 938
Foreman, J., see G. Aka 40/41 (1990) 83
Franceschetti, D.R., A model for the origin of the constant-phase-angle and related nonclassical admittance functions based on fractional Brownian motion 40/41 (1990) 196
Frit, B., see C. Follet-Houttemane 40/41 (1990) 938
Fuchida, R., see N. Machida 40/41 (1990) 589
Fujii, T., see T. Esaka 40/41 (1990) 544
Fujiki, Y., M. Watanabe, T. Sasaki, T. Mitsuhashi, Y. Onoda, S. Yoshikado, T. Ohachi and I. Taniguchi, Flux growth of A_x [$Ga_8Ga_{8+x}Ti_{16-x}O_{56}$] (A=K, Rb, Cs) single crystals 40/41 (1990) 136
Fujiki, Y., see M. Watanabe 40/41 (1990) 139
Fujiki, Y., see S. Yoshikado 40/41 (1990) 142
Fujiki, Y., see Y. Onoda 40/41 (1990) 147
Fujiki, Y., see M. Ishii 40/41 (1990) 150
Fujiwara, R., see M. Mochizuki 40/41 (1990) 746
Fujiwara, R., see T. Ogura 40/41 (1990) 779
Funke, K. and R. Hoppe, Jump–relaxation model yields Kohlrausch–Williams–Watts behaviour 40/41 (1990) 200
Funke, K., T. Kantimm, T. Maue, A.K. Shukla and D. Zurwellen, Hopping and non-hopping localized ionic motion: β-AgI and β-Ag_3SI 40/41 (1990) 275
Furuta, C., T. Nagatsuka, K. Iwasaki, N. Saito and M. Sasabe, Development of an electrochemical sensor for determination of Si contents in molten metal 40/41 (1990) 776

Garcia, A., G. Torres-Treviño and A.R. West, New lithium ion conductors based on the γ-$LiAlO_2$ structure 40/41 (1990) 13
Ghanbari-Ahari, K., see F.W. Poulsen 40/41 (1990) 947
Gogulamurali, N., S.A. Suthanthiraraj and P. Maruthamuthu, Discharge characteristics of Ag–E/E/PI–B cells with various cathodes (where E: 87 m/o AgI-13 m/o $(C_2H_5)_4$ NI and PI:2 phenothiazine-$3I_2$) 40/41 (1990) 993
Gomyo, K., I. Sakaguchi, Y. Shin-ya and M. Iwase, Electrochemical silicon sensor equipped with auxiliary electrode, $ZrO_2+ZrSiO_2$ 40/41 (1990) 773
Gopalakrishnan, R., see B.V.R. Chowdari 40/41 (1990) 684
Gopalakrishnan, R., see B.V.R. Chowdari 40/41 (1990) 709
Göpel, W., see H.-D. Wiemhöfer 40/41 (1990) 421
Göpel, W., see J. Maier 40/41 (1990) 463
Göpel, W., Atomistic understanding of sensor mechanisms: Spectroscopic studies at prototype electronic and ionic conductors 40/41 (1990) 1009
Goto, K.S., M. Sasabe, Y. Iguchi, M. Iwase and M. Moritani, Collaborate research activities of sensor sub-committee at J.S.P.S. 40/41 (1990) 758
Goto, K.S., M. Sasabe, Y. Iguchi, M. Iwase and T. Onou-ye, Solid state sensors incorporating auxillary electrode for rapid determinations of chromium in molten iron 40/41 (1990) 770

Granéli, B., see B.-E. Mellander	40/41 (1990)	162
Gray, F.M., Conductance and conducting species in amorphous polyether–lithium perchlorate systems at very low salt concentration	40/41 (1990)	637
Greenblatt, M., P.P. Tsai, T. Kodama and S. Tanase, Humidity sensor with sintered β-$Ca(PO_3)_2$ for high temperature use	40/41 (1990)	444
Gunawardane, R.P., see M.A.K.L. Dissanayake	40/41 (1990)	23
Gundusharma, U.M., V.G. Jois and E.A. Secco, New series of UO_2SO_4-based compounds, $(Na_2XO_4)_nUO_2SO_4$, exhibiting fast Na^+ ion conductivity in glass and crystal	40/41 (1990)	676
Gür, T.M., see A. Belzner	40/41 (1990)	519
Gür, T.M., see A. Belzner	40/41 (1990)	535
Hagenmuller, P., Chemical bonding and intercalation processes	40/41 (1990)	3
Hamwi, A., see R. Yazami	40/41 (1990)	982
Haneda, H., see M.C. Kim	40/41 (1990)	239
Hannink, R.H.J., see S.P.S. Badwal	40/41 (1990)	882
Harke, S., see H.-D. Wiemhöfer	40/41 (1990)	433
Hartmanová, M., see F.W. Poulsen	40/41 (1990)	947
Hasegawa, M., see R. Kanno	40/41 (1990)	576
Hashmi, S.A., see S. Chandra	40/41 (1990)	460
Hashmi, S.A., see S. Chandra	40/41 (1990)	651
Hattori, M., see S. Yamanaka	40/41 (1990)	43
Hattori, T., H. Okamura, K. Komuro and A. Mitsuishi, Raman scattering in Rb–Ba β-alumina	40/41 (1990)	99
Hattori, T., see H. Okamura	40/41 (1990)	118
Havlin, S., see A. Bunde	40/41 (1990)	192
Hérold, C., R. Yazami and D. Billaud, Electrochemical doping of polyparaphenylene with alkali metals in solid state cells	40/41 (1990)	985
Hervieu, M., see B. Raveau	40/41 (1990)	785
Hess, M., see J.O. Besenhard	40/41 (1990)	525
Hirata, K., see K. Kamigaki	40/41 (1990)	815
Hirohashi, R., see N. Kobayashi	40/41 (1990)	491
Hirokawa, K., see K. Wakamura	40/41 (1990)	331
Hobo, T., see K. Nagashima	40/41 (1990)	480
Hoppe, R., see K. Funke	40/41 (1990)	200
Horiuchi, S., K. Shoda, M. Tsutsumi and Y. Onoda, High T_c Bi-based superconductive oxides obtained by doping fluorines	40/41 (1990)	832
Hoshikawa, T., see T. Matsui	40/41 (1990)	996
Hoshino, S., see T. Sakuma	40/41 (1990)	337
Howells, W.S., see L. Börjesson	40/41 (1990)	702
Huang, H.H., see S. Shin	40/41 (1990)	910
Huang, X., L. Chen and Y. Huang, Thermodynamic study of O–T phase transition in $YBa_2Cu_3O_{7-x}$	40/41 (1990)	807
Huang, Y., see X. Huang	40/41 (1990)	807
Huanosta, A., see J.T.S. Irvine	40/41 (1990)	220
Huggins, R.A., see A. Belzner	40/41 (1990)	519
Huggins, R.A., see A. Belzner	40/41 (1990)	535

Hughes, A.E. and S.P.S. Badwal, Impurity segregation study at the surface of yttria–zirconia electrolytes by XPS	40/41 (1990)	312
Huq, R., see H. Yang	40/41 (1990)	663
Ichikawa, Y., see T. Matsushima	40/41 (1990)	825
Iguchi, E. and Y. Yonezawa, Effects of repulsive interactions on bondings in $YBa_2Cu_3O_x$	40/41 (1990)	795
Iguchi, Y., see S. Yamaguchi	40/41 (1990)	87
Iguchi, Y., see K. Terabe	40/41 (1990)	111
Iguchi, Y., see K.S. Goto	40/41 (1990)	758
Iguchi, Y., see K.S. Goto	40/41 (1990)	770
Iijima, K., see K. Kamigaki	40/41 (1990)	815
Ikeda, S., Y. Kanbayashi, K. Momura, A. Kasai and K. Ito, Solid electrolytes with multivalent cation conduction (2)zinc ion conduction in Zn–Zr–PO_4 system	40/41 (1990)	79
Ikezawa, M., see T. Awano	40/41 (1990)	324
Ikuma, Y., Y. Tsubaki, Y. Nakao, Y. Yokogawa and M. Yoshimura, Oxygen diffusion in the fluorite-related phases of Y_2O_3–Ta_2O_5 and Ho_2O_3–Ta_2O_5 systems	40/41 (1990)	258
Imai, A., see S. Yamaguchi	40/41 (1990)	87
Imai, A., see K. Terabe	40/41 (1990)	111
Imai, A., see K. Ishikawa	40/41 (1990)	612
Imanaka, N., see H. Aono	40/41 (1990)	38
Ingram, M.D., M.A. Mackenzie, W. Müller and M. Torge, Structural granularity and ionic conduction mechanism in glass	40/41 (1990)	671
Inoue, H., see T. Kudo	40/41 (1990)	567
Inoue, T., K. Eguchi, T. Setoguchi and H. Arai, Cathode and anode materials and the reaction kinetics for the solid oxide fuel cell	40/41 (1990)	407
Irvine, J.T.S., A.R. West, E. Amano, A. Huanosta and R. Valenzuela, Characterisation of magnetic materials by impedance spctroscopy	40/41 (1990)	220
Irvine, J.T.S. and A.R. West, $Ca_{12}Al_{14}O_{33}$ solid electrolytes doped with zinc and phosphorus	40/41 (1990)	896
Ishida, M., see N. Nakagawa	40/41 (1990)	411
Ishigame, M., see H. Yugami	40/41 (1990)	316
Ishigame, M., see H. Arashi	40/41 (1990)	539
Ishigame, M., see S. Shin	40/41 (1990)	910
Ishii, M., Y. Fujiki and T. Ohsaka, Raman scattering studies of the one-dimensional ionic conductors K–*B*-priderites (*B*=Zn, Ga) and potassium gallotitanogallate	40/41 (1990)	150
Ishii, T., see K. Takahashi	40/41 (1990)	224
Ishii, T. and T. Ishikawa, Theory of the mixed alkali effects in the β″-alumina	40/41 (1990)	227
Ishii, T., Relaxons in superionic conductors	40/41 (1990)	244
Ishii, T., see A. Yoshiasa	40/41 (1990)	341
Ishii, T., see H. Maeda	40/41 (1990)	345
Ishikawa, H., see N. Kuriyama	40/41 (1990)	906
Ishikawa, K., T. Sugihara, Y. Oshima, T. Kato and A. Imai, Li ion conductive polymer electrolyte based on polyglycerine	40/41 (1990)	612
Ishikawa, T., see T. Ishii	40/41 (1990)	227
Ishizaka, H., see H. Ohno	40/41 (1990)	655
Ito, H., see K. Koto	40/41 (1990)	288

Ito, K., see S. Ikeda 40/41 (1990) 79
Ito, S., see S. Nariki 40/41 (1990) 95
Ito, S., see H. Kawase 40/41 (1990) 448
Itoh, T., K. Koseki, K. Mukaida, K. Kohno, Q.J. Cao and O. Yamamoto, Solid state ionic behavior of liquid electrolytes immobilized in a microporous membrane 40/41 (1990) 620
Ivanov-Shits, A.K. and S.E. Sigaryov, Ionic conductivity of $Na_{8-z}M^zP_2O_9$-type compounds 40/41 (1990) 76
Iwahara, H., see T. Esaka 40/41 (1990) 544
Iwahara, H., see S. Shin 40/41 (1990) 910
Iwahara, H., see T. Yajima 40/41 (1990) 914
Iwasaki, K., see C. Furuta 40/41 (1990) 776
Iwase, M., see K.S. Goto 40/41 (1990) 758
Iwase, M., see K.S. Goto 40/41 (1990) 770
Iwase, M., see K. Gomyo 40/41 (1990) 773
Iwata, T., see N. Sakai 40/41 (1990) 394
Iwata, T., see T. Kawada 40/41 (1990) 40/412
Iyetomi, H., see P. Vashishta 40/41 (1990) 175

Jacobs, R., see F. De Schutter 40/41 (1990) 754
Jacobsen, T., see B. Zachau-Christiansen 40/41 (1990) 580
Jacobsen, T., see K. West 40/41 (1990) 585
Janke, D., Recent development of solid ionic sensors to control iron and steel bath composition 40/41 (1990) 764
Jeffrey, K.R., see S.H. Chung 40/41 (1990) 279
Jois, V.G., see U.M. Gundusharma 40/41 (1990) 676
Jones, G.K., see Å. Wendsjö 40/41 (1990) 659
Julian, P.M., see S. Skaarup 40/41 (1990) 1021

Kaga, Y., Y. Ohno, K. Tsukamoto, F. Uchiyama, M.J. Lain and T. Nakajima, Relationships between the gas permeabilities and the microstructures of plasma sprayed oxide layers 40/41 (1990) 1000
Kaga, Y., see K. Tsukamoto 40/41 (1990) 1003
Kageyama, H., see Y. Saito 40/41 (1990) 34
Kageyama, H., see J. Mayne 40/41 (1990) 67
Kageyama, H., N. Kamijo, T. Asai, Y. Saito, K. Ado and O. Nakamura, XAFS study of NASICON-related compounds, $Na_3Zr_{0.5}Co_{0.5}FeP_3O_{12}$ and $Na_3Zr_{0.5}Fe(II)_{0.5}Fe(III)P_3O_{12}$ 40/41 (1990) 350
Kakihana, M., S. Schantz, L.M. Torell and J.R. Stevens, Dissociated ions and ion–ion interactions in poly(ethylene oxide) based $NaCF_3SO_3$ complexes 40/41 (1990) 641
Kakihana, M., see S. Schantz 40/41 (1990) 645
Kalia, R.K., see P. Vashishta 40/41 (1990) 175
Kambe, S., T. Matsuoka, M. Takahasi, M. Kawai and T. Kawai, Effect of Pb substitution on the superconductive properties in $n=2$ and 3 phases of $Bi_{2-2x}Pb_{2x}Sr_2Ca_{n-1}Cu_nO_y$ 40/41 (1990) 843
Kamigaki, K., H. Terauchi, T. Terashima, Y. Bando, K. Iijima, K. Yamamoto and K. Hirata, X-ray study on ultra-thin $YBa_2Cu_3O_{7-\delta}$ single crystal film in situ grown by an activated reactive evaporation method 40/41 (1990) 815

Kamijo, N., see H. Kageyama	40/41 (1990)	350
Kanamaru, F., see K. Koto	40/41 (1990)	288
Kanamaru, F., see T. Moriga	40/41 (1990)	357
Kanamaru, F., see S. Kikkawa	40/41 (1990)	553
Kanamaru, K., see N. Miura	40/41 (1990)	452
Kanashiro, T., see Y. Michihiro	40/41 (1990)	205
Kanashiro, T., Y. Kishimoto, T. Ohno and Y. Michihiro, NMR study of mobile ions in Cu_xSe and Cu_xS	40/41 (1990)	308
Kanazawa, T., see K. Yamashita	40/41 (1990)	48
Kanazawa, T., see K. Yamashita	40/41 (1990)	918
Kanbara, T., K. Takada, Y. Yamamura and S. Kondo, Photo-rechargeable solid state battery	40/41 (1990)	955
Kanbara, T., see K. Takada	40/41 (1990)	988
Kanbayashi, Y., see S. Ikeda	40/41 (1990)	79
Kanehori, K., see N. Sugii	40/41 (1990)	819
Kanno, R., Y. Kawamoto, Y. Takeda, M. Hasegawa and O. Yamamoto, Structure and lithiation mechanism of the spinel, $LiCuVO_4$	40/41 (1990)	576
Kantimm, T., see K. Funke	40/41 (1990)	275
Kasai, A., see S. Ikeda	40/41 (1990)	79
Katayama, K., see K. Yamashita	40/41 (1990)	918
Kato, A., see N. Kuriyama	40/41 (1990)	906
Kato, M., see J. Kuwano	40/41 (1990)	472
Kato, T., see K. Ishikawa	40/41 (1990)	612
Kato, Y., M. Watanabe, K. Sanui and N. Ogata, Ionic transport number of network PEO electrolytes	40/41 (1990)	632
Kawada, T., see N. Sakai	40/41 (1990)	394
Kawada, T., see H. Yokokawa	40/41 (1990)	398
Kawada, T., N. Sakai, H. Yokokawa, M. Dokiya, M. Mori and T. Iwata, Structure and polarization characteristics of solid oxide fuel cell anodes	40/41 (1990)	402
Kawai, M., see S. Kambe	40/41 (1990)	843
Kawai, T., see S. Kambe	40/41 (1990)	843
Kawaji, H., see T. Atake	40/41 (1990)	572
Kawamoto, Y., see R. Kanno	40/41 (1990)	576
Kawase, H., S. Ito, S. Nariki, N. Koura and N. Yoneda, Humidity sensitivity of β-alumina type ferrite films	40/41 (1990)	448
Kehr, K.W. and M. Braun, Diffusivity and mobility of lattice gases in lattices with randomly blocked sites	40/41 (1990)	167
Kezionis, A., see A. Orliukas	40/41 (1990)	158
Kezionis, A., see R. Vaitkus	40/41 (1990)	922
Kikkawa, S., see T. Moriga	40/41 (1990)	357
Kikkawa, S., M. Miyazaki, Y. Liu and F. Kanamaru, Deposition process and some characteristics of TiS_2 prepared by plasma CVD	40/41 (1990)	553
Kikuchi, Y., see N. Kumagai	40/41 (1990)	978
Kim, M.C., S.J. Park, H. Haneda, J. Tanaka and S. Shirasaki, High temperature electrical conductivity of $La_{1-x}Sr_xFeO_{3-\delta}$ ($x>0.5$)	40/41 (1990)	239
Kimura, K., T. Suzuki and M. Yokoyama, Photo-induced ionic conductivity switching in polymer composite film with azobenzene derivative	40/41 (1990)	666

Kishimoto, A., see T. Kudo	40/41 (1990)	567
Kishimoto, A., T. Nanba and T. Kudo, Spin-coated $Ta_2O_5 \cdot nH_2O$ films derived from peroxo poly-tantalate solution	40/41 (1990)	903
Kishimoto, Y., see Y. Michihiro	40/41 (1990)	205
Kishimoto, Y., see T. Kanashiro	40/41 (1990)	308
Kitao, M., see S. Yamada	40/41 (1990)	487
Kjær, J. and E. Skou, The effect of adsorbates on the ionic conductivity of zeolites	40/41 (1990)	121
Knab, G.G., see F.W. Poulsen	40/41 (1990)	947
Kobayashi, M., see M. Aniya	40/41 (1990)	209
Kobayashi, M., see T. Tomoyose	40/41 (1990)	213
Kobayashi, M., see M. Aniya	40/41 (1990)	216
Kobayashi, M., T. Tomari, F. Tachibana and H. Okazaki, Caterpillar motion in α-Ag_2Te	40/41 (1990)	300
Kobayashi, M., H. Shimojo, F. Tachibana and H. Okazaki, Ionic motion in superionic superlattice	40/41 (1990)	303
Kobayashi, N., R. Hirohashi, H. Ohno and E. Tsuchida, Electrochromic characteristics for all solid state ECD composed of polymer electrolytes	40/41 (1990)	491
Kobayashi, N., see H. Ohno	40/41 (1990)	655
Kodama, T., see M. Greenblatt	40/41 (1990)	444
Koepke, J., see Y. Ueshima	40/41 (1990)	232
Kohno, K., see T. Itoh	40/41 (1990)	620
Koide, K., see T. Yajima	40/41 (1990)	914
Koike, A., see H. Yugami	40/41 (1990)	316
Kojima, A., see Y. Michihiro	40/41 (1990)	205
Komenda, P., see J.O. Besenhard	40/41 (1990)	525
Komuro, K., see T. Hattori	40/41 (1990)	99
Kondo, S., see T. Kanbara	40/41 (1990)	955
Kondo, S., see K. Takada	40/41 (1990)	988
Kontoulis, I., see D.J. Vischjager	40/41 (1990)	810
Koseki, K., see T. Itoh	40/41 (1990)	620
Koto, K., H. Ito, F. Kanamaru, S. Emura and A. Yoshiasa, EXAFS study of the fluorite-type compounds in the system Bi_2O_3–Gd_2O_3	40/41 (1990)	288
Koto, K., see A. Yoshiasa	40/41 (1990)	341
Koto, K., see H. Maeda	40/41 (1990)	345
Koura, N., see H. Kawase	40/41 (1990)	448
Kovaleva, N.N., see S.I. Bredikhin	40/41 (1990)	180
Kovaleva, N.N., see A.V. Boris	40/41 (1990)	266
Kozawa, K., see S. Nariki	40/41 (1990)	95
Kudo, T., A. Kishimoto, J. Oi and H. Inoue, Synthesis of new WO_3-based complex oxides with tunnels by a chemical mixing process using peroxo-polytungstates	40/41 (1990)	567
Kudo, T., see A. Kishimoto	40/41 (1990)	903
Kudo, Y., see M. Watanabe	40/41 (1990)	139
Kumagai, N., Y. Kikuchi and K. Tanno, Kinetic and structural characteristics of niobium vanadium oxide electrodes for secondary lithium batteries	40/41 (1990)	978
Kumar, A., see S. Chandra	40/41 (1990)	255
Kumar, A., see S. Chandra	40/41 (1990)	863
Kuo, C., see X. Li	40/41 (1990)	236

Kuriyama, N., T. Sakai, H. Miyamura, A. Kato and H. Ishikawa, High conductivity and phase transitions of tetramethylammonium hydroxide pentahydrate, $(CH_3)_4NOH \cdot 5H_2O$	40/41 (1990)	906
Kuroda, C., see N. Nakagawa	40/41 (1990)	411
Kusanagi, S., see A. Yasuda	40/41 (1990)	476
Kushida, T., see M. Nagai	40/41 (1990)	107
Kushima, K., K. Shibata and M. Naito, Measurement of the oxygen partial pressure in the blast furnace raceway for the Si transfer reaction analysis	40/41 (1990)	743
Kuwano, J., M. Asano, K. Shigehara and M. Kato, Ambient temperature solid-state oxygen sensor using fast ion conductors, $PbSnF_4$ and Ag_6WO_4	40/41 (1990)	472
Kuwano, J., Silver ion conducting glasses and some applications	40/41 (1990)	696
Lain, M.J., see Y. Kaga	40/41 (1990)	1000
Lain, M.J., see K. Tsukamoto	40/41 (1990)	1003
Lane, C., G.C. Farrington, J.O. Thomas and M.A. Zendejas, Molecular dynamics simulation of ion transport in Na^+-Ba^{2+}-β-alumina	40/41 (1990)	53
Lauer, U., see J. Maier	40/41 (1990)	463
Lebrun, N., M. Lévy and J.L. Souquet, Electronic conductivity in glasses of the TeO_2–V_2O_5–MoO_3 system	40/41 (1990)	718
Lévy, M., see N. Lebrun	40/41 (1990)	718
Li, S.-C., see Z.-X. Lin	40/41 (1990)	59
Li, X. and C. Kuo, A method for detecting mobile cation species and studying ion transport in solids	40/41 (1990)	236
Liaw, B.Y. and W. Weppner, Low temperature limiting-current oxygen sensors using tetragonal zirconia as solid electrolytes	40/41 (1990)	428
Lichkova, N.V., see S.I. Bredikhin	40/41 (1990)	180
Lin, F. and W. Wang, Electrochemistry behaviors of solid state electrolyte on Zn-montmorillonite	40/41 (1990)	131
Lin, F.-L., see W.-L. Wang	40/41 (1990)	125
Lin, J., see L. Yang	40/41 (1990)	616
Lin, Z.-X., H.-J. Yu, S.-B. Tian and S.-C. Li, Phase relationship, electrical conductivity and crystal chemistry of $Na_{3+x}Zr_{2-x}Yb_xSi_2PO_{12}$ system	40/41 (1990)	59
Lin, Z.-X., see Z.-Y. Wen	40/41 (1990)	91
Liu, Q., X. Sun and W. Wu, A new SO_2/SO_3 sensor with Ag_2SO_4-based electrolyte	40/41 (1990)	456
Liu, Q., see L. Yang	40/41 (1990)	616
Liu, Q., see S. An	40/41 (1990)	750
Liu, Q., see W.L. Worrell	40/41 (1990)	761
Liu, Y., see S. Kikkawa	40/41 (1990)	553
Liu, Y.D., see L.S. Yang	40/41 (1990)	967
Löbert, A., see N. Nicoloso	40/41 (1990)	320
Lorenz, W.J., see A. Pinkowski	40/41 (1990)	822
Lucier, G., see A. Belzner	40/41 (1990)	519
Maass, P., see A. Bunde	40/41 (1990)	187
Machida, N., R. Fuchida and T. Minami, Preparation and lithium intercalation properties of rapidly quenched glasses in the system Fe_2O_3–V_2O_5	40/41 (1990)	589
Mackenzie, M.A., see M.D. Ingram	40/41 (1990)	671
Maeda, H., see A. Yoshiasa	40/41 (1990)	341

Maeda, H., A. Yoshiasa, K. Koto and T. Ishii, EXAFS study on anharmonic vibrations in CuBr 40/41 (1990) 345
Magara, M., T. Tsuji and K. Naito, A Mössbauer effect study of fast ionic diffusion of iron telluride 40/41 (1990) 284
Magistris, A., see K. Singh 40/41 (1990) 714
Maier, J., U. Lauer and W. Göpel, Gas sensitivity of AgCl interfaces 40/41 (1990) 463
Maier, J., P. Murugaraj and G. Pfundtner, Defect chemistry and anisotropic transport in $YBa_2Cu_3O_{6...7}$ 40/41 (1990) 802
Maier, J. and P. Murugaraj, The effect of heterogeneous doping on heterogeneous catalysis: Dehydrohalogenation of tertiary butyl chloride 40/41 (1990) 1017
Mairesse, G., see F. Abraham 40/41 (1990) 934
Mannari, I., see K. Takahashi 40/41 (1990) 224
Mari, C.M., see M. Catti 40/41 (1990) 900
Mariotto, G., M. Montagna and F. Rossi, A comparative analysis of the luminescence of the Cr^{3+} ion in sodium β- and β″-alumina crystals 40/41 (1990) 328
Mariotto, G., E. Cazzanelli and A. Wague, Raman spectroscopy of lead-containing β″-alumina crystals 40/41 (1990) 334
Mariotto, G., see M. Catti 40/41 (1990) 900
Maruthamuthu, P., see N. Gogulamurali 40/41 (1990) 993
Matayoshi, N., N. Miura and N. Yamazoe, New type biosensor using solid electrolyte 40/41 (1990) 440
Matsui, N. and M. Takigawa, Impedance spectroscopy on YSZ with iron oxide as additive 40/41 (1990) 926
Matsui, T., T. Hoshikawa and K. Naito, Oxidation of simulated fission-produced noble metals and alloy 40/41 (1990) 996
Matsuoka, M., see M. Mochizuki 40/41 (1990) 746
Matsuoka, M., see T. Ogura 40/41 (1990) 779
Matsuoka, T., see S. Kambe 40/41 (1990) 843
Matsushima, T., Y. Ichikawa, M. Yoshida, H. Adachi, K. Setsune and K. Wasa, Formation of artificially layered superconducting Bi–Sr–Ca–Cu–O thin films by multitarget sputtering 40/41 (1990) 825
Matsuyama, T., see T. Awano 40/41 (1990) 324
Maue, T., see K. Funke 40/41 (1990) 275
Mayne, J., Y. Saito, H. Kageyama, K. Ado, T. Asai and O. Nakamura, Ionic conductivity of $Na_4Zr_2Si_3O_{12}$ dispersed with PZT 40/41 (1990) 67
Mayne, J., see Y. Saito 40/41 (1990) 72
McLean, A., Sensor aided process control in iron and steelmaking 40/41 (1990) 737
Mellander, B.-E., see P.W.S.K. Bandaranayake 40/41 (1990) 31
Mellander, B.-E., B. Granéli and J. Roos, Ionic conductivity of single crystal $LiNaSO_4$ 40/41 (1990) 162
Menetrier, M., see C. Delmas 40/41 (1990) 560
Menne, A. and W. Weppner, Selectivity, response time and chemical aspects of gas sensitive AgCl layers for gas sensors 40/41 (1990) 468
Mercurio, D., see C. Follet-Houttemane 40/41 (1990) 938
Messina, R., see J.P. Pereira-Ramos 40/41 (1990) 970
Messina, R., see J.P. Pereira-Ramos 40/41 (1990) 974
Michel, C., see B. Raveau 40/41 (1990) 785
Michihiro, Y., T. Kanashiro, Y. Kishimoto, T. Ohno and A. Kojima, Ultrasonic properties of Ag_3SI 40/41 (1990) 205

Michihiro, Y., see T. Kanashiro 40/41 (1990) 308
Middleton, P.H., see B.C.H. Steele 40/41 (1990) 388
Miida, R. and M. Tanaka, Local ordering of anions in α-$Ag_2S_{1-x}Te_x$ 40/41 (1990) 362
Minami, T., see N. Machida 40/41 (1990) 589
Minami, T., see M. Tatsumisago 40/41 (1990) 828
Mindjov, K., see G. Staikov 40/41 (1990) 103
Mitsuhashi, T., see Y. Fujiki 40/41 (1990) 136
Mitsuishi, A., see T. Hattori 40/41 (1990) 99
Miura, N., see N. Matayoshi 40/41 (1990) 440
Miura, N., K. Kanamaru, Y. Shimizu and N. Yamazoe, Use of oxide electrodes for proton-conductor gas sensor 40/41 (1990) 452
Miyamura, H., see N. Kuriyama 40/41 (1990) 906
Miyauchi, K., see N. Sugii 40/41 (1990) 819
Miyazaki, M., see S. Kikkawa 40/41 (1990) 553
Mizusaki, J., see A. Sawata 40/41 (1990) 415
Mochizuki, M., M. Matsuoka and R. Fujiwara, Improvement in response of commercialized oxygen sensor 40/41 (1990) 746
Momoda, L.A., see J.O. Thomas 40/41 (1990) 63
Momura, K., see S. Ikeda 40/41 (1990) 79
Monma, A., see K. Tsukamoto 40/41 (1990) 1003
Montagna, M., see G. Mariotto 40/41 (1990) 328
Mori, M., see T. Kawada 40/41 (1990) 402
Moriga, T., S. Emura, A. Yoshiasa, S. Kikkawa and F. Kanamaru, X-ray and Raman study on coordination states of fluorite- and pyrochlore-type compounds in the system ZrO_2–Gd_2O_3 40/41 (1990) 357
Moritani, M., see K.S. Goto 40/41 (1990) 758
Mukaida, K., see T. Itoh 40/41 (1990) 620
Müller, W., see M.D. Ingram 40/41 (1990) 671
Munshi, M.Z.A., see P.S.S. Prasad 40/41 (1990) 959
Murugaraj, P., see J. Maier 40/41 (1990) 802
Murugaraj, P., see J. Maier 40/41 (1990) 1017

Nagai, J., Advances in research and applications of electrochromic smart windows 40/41 (1990) 383
Nagai, M., T. Kushida and T. Nishino, Effect of water vapor on the conductivity of porous Na β/β″-Al_2O_3 ceramics 40/41 (1990) 107
Nagashima, K. and T. Hobo, Electrochemical gas sensor using PEO electrolyte 40/41 (1990) 480
Nagatsuka, T., see C. Furuta 40/41 (1990) 776
Naito, K., see M. Magara 40/41 (1990) 284
Naito, K., see T. Matsui 40/41 (1990) 996
Naito, M., see K. Kushima 40/41 (1990) 743
Naitoh, H., see H. Arashi 40/41 (1990) 539
Nakagawa, N., C. Kuroda and M. Ishida, A new equivalent circuit for Pt/YSZ of a solid oxide electrolyte fuel cell: Relation between the model parameters and the interface characteristics 40/41 (1990) 411
Nakajima, A., see H. Yugami 40/41 (1990) 316
Nakajima, T., see R. Yazami 40/41 (1990) 557
Nakajima, T., see Y. Kaga 40/41 (1990) 1000

Nakajima, T., see K. Tsukamoto	40/41 (1990)	1003
Nakamura, O., see Y. Saito	40/41 (1990)	34
Nakamura, O., see J. Mayne	40/41 (1990)	67
Nakamura, O., see Y. Saito	40/41 (1990)	72
Nakamura, O., see H. Kageyama	40/41 (1990)	350
Nakamura, T., see T. Atake	40/41 (1990)	572
Nakanishi, N., see T. Shigematsu	40/41 (1990)	799
Nakao, Y., see Y. Ikuma	40/41 (1990)	258
Nanba, T., see A. Kishimoto	40/41 (1990)	903
Nardella, N., see S.P.S. Badwal	40/41 (1990)	878
Nariki, S., S. Ito, K. Kozawa, T. Uchida and N. Yoneda, Crystal structure of Cd stabilized K^+-β^--ferrite with β''-alumina structure	40/41 (1990)	95
Nariki, S., see H. Kawase	40/41 (1990)	448
Natsuhara, M., T. Uchida and M. Wakihara, Electrical conductivity of the CaF_2–NaF system	40/41 (1990)	874
Nicoloso, N., A. Löbert, W. Weppner and A. Rabenau, Opto-electrochemical study of minority charge carriers in YSZ	40/41 (1990)	320
Nishino, T., see M. Nagai	40/41 (1990)	107
Niwa, T., see T. Saito	40/41 (1990)	499
Noh, D.Y., see C. Delmas	40/41 (1990)	563
Nojiri, T., see K. Yamashita	40/41 (1990)	48
Norby, T., Proton conduction in oxides	40/41 (1990)	857
Norton, J.C., see D. Teeters	40/41 (1990)	648
Nowogrocki, G., see F. Abraham	40/41 (1990)	934
Ogata, N., see Y. Yamaguchi	40/41 (1990)	628
Ogata, N., see Y. Kato	40/41 (1990)	632
Ogumi, Z., see Y. Uchimoto	40/41 (1990)	624
Ogura, T., M. Matsuoka and R. Fujiwara, Development of silicon sensor for hot metal using thermal electromotive force method	40/41 (1990)	779
Ohachi, T., see Y. Fujiki	40/41 (1990)	136
Ohachi, T., see M. Watanabe	40/41 (1990)	139
Ohachi, T., see S. Yoshikado	40/41 (1990)	142
Ohachi, T., see Y. Onoda	40/41 (1990)	147
Ohno, H., see N. Kobayashi	40/41 (1990)	491
Ohno, H., N. Kobayashi, S. Takeoka, H. Ishizaka and E. Tsuchida, Larger cations can move faster in solid polymer electrolytes	40/41 (1990)	655
Ohno, T., see Y. Michihiro	40/41 (1990)	205
Ohno, T., see T. Kanashiro	40/41 (1990)	308
Ohno, Y., see Y. Kaga	40/41 (1990)	1000
Ohno, Y., see K. Tsukamoto	40/41 (1990)	1003
Ohsaka, T., see M. Ishii	40/41 (1990)	150
Ohtani, T., High temperature thermoelectric power of $LnBa_2Cu_3O_{7-y}$ and $(Bi, Pb)_2Sr_2Ca_2Cu_3O_y$	40/41 (1990)	840
Ohtsuka, H., S. Okada and J. Yamaki, Solid state battery with Li_2O–V_2O_5–SiO_2 solid electrolyte thin film	40/41 (1990)	964
Oi, J., see T. Kudo	40/41 (1990)	567

Okada, S., see H. Ohtsuka	40/41 (1990)	964
Okamura, H., see T. Hattori	40/41 (1990)	99
Okamura, H. and T. Hattori, Luminescence spectra of Cr^{3+} in $Na_{1-x}K_x$ β-alumina crystals	40/41 (1990)	118
Okazaki, H. and F. Tachibana, A cooperative motion of cations in α-Ag_2Te	40/41 (1990)	171
Okazaki, H., see M. Aniya	40/41 (1990)	209
Okazaki, H., see M. Kobayashi	40/41 (1990)	300
Okazaki, H., see M. Kobayashi	40/41 (1990)	303
Omari, M., M. Drache, P. Conflant and J.C. Boivin, Anionic conduction properties of the fluorite-type phase in the Bi_2O_3–Y_2O_3–PbO system	40/41 (1990)	929
Onoda, Y., see Y. Fujiki	40/41 (1990)	136
Onoda, Y., see S. Yoshikado	40/41 (1990)	142
Onoda, Y., M. Watanabe, Y. Fujiki, S. Yoshikade, T. Ohachi and I. Taniguchi, NMR study of the one-dimensional ionic conductor $A_xGa_8Ga_{8+x}Ti_{16-x}O_{56}$ (A=Rb, Cs). II	40/41 (1990)	147
Onoda, Y., see S. Horiuchi	40/41 (1990)	832
Onou-ye, T., see K.S. Goto	40/41 (1990)	770
Opila, E., see H.L. Tuller	40/41 (1990)	790
Orliukas, A., R. Vaitkus, A. Kezionis and S. Aukselis, Electric conductivity, dielectric permittivity and Raman scattering spectra of $Li_3Fe_2(PO_4)_3$ single crystals	40/41 (1990)	158
Orliukas, A., see R. Vaitkus	40/41 (1990)	922
Oshima, Y., see K. Ishikawa	40/41 (1990)	612
Owada, H., see K. Yamashita	40/41 (1990)	918
Owens, B.B., see P.S.S. Prasad	40/41 (1990)	959
Park, S.J., see M.C. Kim	40/41 (1990)	239
Passerini, S., see F. Croce	40/41 (1990)	375
Pereira-Ramos, J.P., R. Messina, S. Bach and N. Baffier, Influence of the synthesis via a sol–gel process on the electrochemical lithium and sodium insertion in β-$Na_{0.33}V_2O_5$	40/41 (1990)	970
Pereira-Ramos, J.P., R. Messina and J. Perichon, A kinetic study of electrochemical lithium insertion into vanadium pentoxide in molten dimethylsulfone at 150°C	40/41 (1990)	974
Perera, W.G., see J.L. Souquet	40/41 (1990)	595
Perichon, J., see J.P. Pereira-Ramos	40/41 (1990)	974
Petersen, J., see W. Dieterich	40/41 (1990)	184
Petersen, J., see A. Bunde	40/41 (1990)	187
Pfundtner, G., see J. Maier	40/41 (1990)	802
Pinkowski, A., W.J. Lorenz, G. Saemann-Ischenko and M.W. Breiter, Low-temperature studies of the interface high T_c superconductor/Ag β″-alumina	40/41 (1990)	822
Poulsen, F.W., J.B. Bilde-Sørensen, K. Ghanbari-Ahari, G.G. Knab and M. Hartmanová, Oxygen ion conduction in ternary zirconia mixtures: Effect of SrO on MgSZ	40/41 (1990)	947
Prasad, G., see S. Chandra	40/41 (1990)	651
Prasad, P.S.S., M.Z.A. Munshi, B.B. Owens and W.H. Smyrl, Ambient temperature solid polymer electrolyte devices	40/41 (1990)	959
Provost, J., see B. Raveau	40/41 (1990)	785

Rabenau, A., see N. Nicoloso	40/41 (1990)	320
Radhakrishnan, K., see B.V.R. Chowdari	40/41 (1990)	680
Radhakrishna, S., see R.V.G.K. Sarma	40/41 (1990)	483
Raveau, B., C. Michel, J. Provost and M. Hervieu, The nature and the role of rock salt-type layers in superconductive layered copper oxides	40/41 (1990)	785
Rino, J.P., see P. Vashishta	40/41 (1990)	175
Roman, H.E., see W. Dieterich	40/41 (1990)	184
Roman, H.E., see A. Bunde	40/41 (1990)	187
Roman, H.E., see A. Bunde	40/41 (1990)	192
Roos, J., see B.-E. Mellander	40/41 (1990)	162
Rossi, F., see G. Mariotto	40/41 (1990)	328
Rotman, S.R. and H.L. Tuller, Ionic conduction in yttrium aluminum garnet	40/41 (1990)	893
Rudkin, R.A., see B.C.H. Steele	40/41 (1990)	388
Sadaoka, Y., see H. Aono	40/41 (1990)	38
Saemann-Ischenko, G., see A. Pinkowski	40/41 (1990)	822
Saito, M., H. Takahashi and S. Tamaki, Site energy differences of $(Ag_xCu_{1-x})Br$	40/41 (1990)	18
Saito, N., see C. Furuta	40/41 (1990)	776
Saito, T., Y. Ushio, M. Yamada and T. Niwa, Properties of tantalum oxide thin film for solid electrolyte	40/41 (1990)	499
Saito, Y., T. Asai, K. Ado, H. Kageyama and O. Nakamura, Ionic conductivity of Li^+ ion conductors, $Li_{4-2}M_xSi_{1-x}O_4$ (M: B^{3+}, Al^{3+}, Ga^{3+}, Cr^{3+}, Fe^{3+}, Co^{2+}, Ni^{2+})	40/41 (1990)	34
Saito, Y., see J. Mayne	40/41 (1990)	67
Saito, Y., J. Mayne, K. Ado, Y. Yamamoto and O. Nakamura, Electrical conductivity enhancement of $Na_4Zr_2Si_3O_{12}$ dispersed with ferroelectric $BaTiO_3$	40/41 (1990)	72
Saito, Y., see H. Kageyama	40/41 (1990)	350
Sakaguchi, I., see K. Gomyo	40/41 (1990)	773
Sakai, N., T. Kawada, H. Yokokawa, M. Dokiya and T. Iwata, Thermal expansion of some chromium deficient lanthanum chromites	40/41 (1990)	394
Sakai, N., see H. Yokokawa	40/41 (1990)	398
Sakai, N., see T. Kawada	40/41 (1990)	402
Sakai, T., see N. Kuriyama	40/41 (1990)	906
Sakuma, T., K. Shibata and S. Hoshino, Low-energy excitation in copper ion conductors	40/41 (1990)	337
Samulionis, V., see R. Vaitkus	40/41 (1990)	922
Sandberg, M., see S. Schantz	40/41 (1990)	645
Sanui, K., see Y. Yamaguchi	40/41 (1990)	628
Sanui, K., see Y. Kato	40/41 (1990)	632
Sarma, R.V.G.K. and S. Radhakrishna, Silver borotungstate glasses: New electrolyte for solid state electrochemical cell	40/41 (1990)	483
Sasabe, M., see K.S. Goto	40/41 (1990)	758
Sasabe, M., see K.S. Goto	40/41 (1990)	770
Sasabe, M., see C. Furuta	40/41 (1990)	776
Sasaki, T., see Y. Fujiki	40/41 (1990)	136
Sato, H., Theoretical background for the mixed alkali effect	40/41 (1990)	725
Sawano, M., see T. Setoguchi	40/41 (1990)	502

Sawata, A., K. Tsuneyoshi, J. Mizusaki and H. Tagawa, Oxygen chemical potential profile in a solid oxide fuel cell and simulation of electrochemical performance	40/41 (1990)	415
Schaefer, G.W., A. van Zyl and W. Weppner, Direct synthesis of divalent beta alumina and related phases	40/41 (1990)	154
Schantz, S., see M. Kakihana	40/41 (1990)	641
Schantz, S., M. Kakihana and M. Sandberg, NMR study of a poly(propylene oxide)–$NaCF_3SO_3$ polymer electrolyte	40/41 (1990)	645
Schmalzried, H., see Y. Ueshima	40/41 (1990)	232
Schmeißer, D., see H.-D. Wiemhöfer	40/41 (1990)	421
Schoonman, J., see D.J. Vischjager	40/41 (1990)	810
Schreiber, M., see A. Belzner	40/41 (1990)	519
Schwartzbach, H., see J.J. Bentzen	40/41 (1990)	942
Scrosati, B., see F. Croce	40/41 (1990)	375
Secco, E.A., see U.M. Gundusharma	40/41 (1990)	676
Selvaggi, A., see F. Croce	40/41 (1990)	375
Sengas, J., see C. Delmas	40/41 (1990)	560
Setoguchi, T., see T. Inoue	40/41 (1990)	407
Setoguchi, T., M. Sawano, K. Eguchi and H. Arai, Application of the stabilized zirconia thin film prepared by spray pyrolysis method to SOFC	40/41 (1990)	502
Setsune, K., see T. Matsushima	40/41 (1990)	825
Shan, Z.Q., see L.S. Yang	40/41 (1990)	967
Sheng, C., see L. Chen	40/41 (1990)	495
Shibata, K., see T. Sakuma	40/41 (1990)	337
Shibata, K., see K. Kushima	40/41 (1990)	743
Shigehara, K., see J. Kuwano	40/41 (1990)	472
Shigematsu, T. and N. Nakanishi, Effect of vacuum calcination and subsequent oxidation on the superconducting properties of $YBa_2Cu_3O_x$	40/41 (1990)	799
Shima, H., see K. Wakamura	40/41 (1990)	331
Shimizu, Y., see N. Miura	40/41 (1990)	452
Shimojo, H., see M. Kobayashi	40/41 (1990)	303
Shin, S., H.H. Huang, M. Ishigame and H. Iwahara, Protonic conduction in the single crystals of $SrZrO_3$ and $SrCeO_3$ doped with Y_2O_3	40/41 (1990)	910
Shin-ya, Y., see K. Gomyo	40/41 (1990)	773
Shirasaki, S., see M.C. Kim	40/41 (1990)	239
Shoda, K., see S. Horiuchi	40/41 (1990)	832
Shue, S.L. and H.L. Tuller, Lithium ion transport in Li_2O–LiCl–CaO–B_2O_3 glasses	40/41 (1990)	693
Shukla, A.K., see K. Funke	40/41 (1990)	275
Sigaryov, S.E., see A.K. Ivanov-Shits	40/41 (1990)	76
Singh, K., see S.S. Bhoga	40/41 (1990)	27
Singh, K., see V.K. Deshpande	40/41 (1990)	689
Singh, K., G. Chiodelli and A. Magistris, Ionic conductivity and thermal behaviour of Ag_2O–P_2O_5–MoO_3 glasses	40/41 (1990)	714
Singh, K. and S.S. Bhoga, On the dispersion of ionically conducting glass into the Li_2SO_4–Li_2CO_3 eutectic composite system	40/41 (1990)	1025
Skaarup, S., see K. West	40/41 (1990)	585
Skaarup, S., K. West, P.M. Julian and D.M. Thomas, Mixed phase solid electrolytes with nonconducting polymer binder	40/41 (1990)	1021
Skou, E., see J. Kjær	40/41 (1990)	121

Skritskij, V., see R. Vaitkus	40/41 (1990)	922
Smyrl, W.H., see P.S.S. Prasad	40/41 (1990)	959
Sobolev, B.P., see L.N. Demianets	40/41 (1990)	836
Souquet, J.L. and W.G. Perera, Thermodynamics applied to ionic transport in glasses	40/41 (1990)	595
Souquet, J.L., see N. Lebrun	40/41 (1990)	718
Staikov, G., B. Yancheva, K. Mindjov and P.D. Yankulov, Electrochemical behaviour of β″-alumina in presence of oxygen	40/41 (1990)	103
Steele, B.C.H., P.H. Middleton and R.A. Rudkin, Material science aspects of SOFC technology with special reference to anode development	40/41 (1990)	388
Steele, B.C.H., see D.J. Vischjager	40/41 (1990)	810
Stevens, J.R., see S.H. Chung	40/41 (1990)	279
Stevens, J.R., see M. Kakihana	40/41 (1990)	641
Suemoto, T., Quasielastic light scattering in superionic conductors	40/41 (1990)	250
Suemoto, T., see H. Yugami	40/41 (1990)	316
Sugihara, T., see K. Ishikawa	40/41 (1990)	612
Sugii, N., K. Kanehori and K. Miyauchi, Superconducting $YBa_2Cu_3O_{7-x}$ thin films grown by organometallic chemical vapor deposition	40/41 (1990)	819
Sugimoto, E., see H. Aono	40/41 (1990)	38
Suh, K.S., see C. Delmas	40/41 (1990)	560
Sun, X., see Q. Liu	40/41 (1990)	456
Sunandana, C.S., see P. Balaya	40/41 (1990)	700
Suthanthiraraj, S.A., see N. Gogulamurali	40/41 (1990)	993
Suwa, K., see T. Esaka	40/41 (1990)	544
Suzuki, T., see K. Kimura	40/41 (1990)	666
Tachibana, F., see H. Okazaki	40/41 (1990)	171
Tachibana, F., see M. Kobayashi	40/41 (1990)	300
Tachibana, F., see M. Kobayashi	40/41 (1990)	303
Tagawa, H., see A. Sawata	40/41 (1990)	415
Takada, K., see T. Kanbara	40/41 (1990)	955
Takada, K., T. Kanbara, Y. Yamamura and S. Kondo, Rechargeable solid-state batteries with silver ion conductors	40/41 (1990)	988
Takahagi, Y., see K. Tsukamoto	40/41 (1990)	1003
Takahashi, H., see M. Saito	40/41 (1990)	18
Takahashi, K., I. Mannari and T. Ishii, Computer simulation of 1-D Frenkel–Kontorova model system	40/41 (1990)	224
Takahasi, M., see S. Kambe	40/41 (1990)	843
Takarabe, K., see K. Wakamura	40/41 (1990)	331
Takeda, Y., see R. Kanno	40/41 (1990)	576
Takehara, Z., see Y. Uchimoto	40/41 (1990)	624
Takeoka, S., see H. Ohno	40/41 (1990)	655
Takigawa, M., see N. Matsui	40/41 (1990)	926
Tamaki, S., see M. Saito	40/41 (1990)	18
Tan, K.L., see B.V.R. Chowdari	40/41 (1990)	684
Tan, K.L., see B.V.R. Chowdari	40/41 (1990)	709
Tanaka, J., see M.C. Kim	40/41 (1990)	239
Tanaka, M., see R. Miida	40/41 (1990)	362

Tanase, S., see M. Greenblatt 40/41 (1990) 444
Taniguchi, I., see Y. Fujiki 40/41 (1990) 136
Taniguchi, I., see S. Yoshikado 40/41 (1990) 142
Taniguchi, I., see Y. Onoda 40/41 (1990) 147
Tanno, K., see N. Kumagai 40/41 (1990) 978
Tas, H., see F. De Schutter 40/41 (1990) 754
Tatsumisago, M., C.A. Angell, S. Tsuboi, Y. Akamatsu, N. Tohge and T. Minami, Viscosity and crystallization of quenched Bi–Ca–Sr–Cu–O glasses as high-T_c superconductor precursors 40/41 (1990) 828
Teeters, D. and J.C. Norton, Mixed-alkali effect in poly(propylene oxide)–thiocyanate salt systems 40/41 (1990) 648
Terabe, K., S. Yamaguchi, A. Imai and Y. Iguchi, Characterization of sodium β-alumina prepared by sol–gel method 40/41 (1990) 111
Terashima, T., see K. Kamigaki 40/41 (1990) 815
Terauchi, H., see K. Kamigaki 40/41 (1990) 815
Thomas, D.M., see S. Skaarup 40/41 (1990) 1021
Thomas, J.O., see C. Lane 40/41 (1990) 53
Thomas, J.O., L.A. Momoda, B. Dunn and G.C. Farrington, The relationship between structure and optical properties in the mixed-ion system Na^+/Ce^{3+} β″-alumina 40/41 (1990) 63
Thomas, J.O., see Å. Wendsjö 40/41 (1990) 659
Tian, S.-B., see Z.-X. Lin 40/41 (1990) 59
Tian, S.-B., see Z.-Y. Wen 40/41 (1990) 91
Tohge, N., see M. Tatsumisago 40/41 (1990) 828
Tomari, T., see M. Kobayashi 40/41 (1990) 300
Tomoyose, T., K. Yonashiro and M. Kobayashi, Dimensional crossover of collective modes in layered superionic conductors 40/41 (1990) 213
Torell, L.M., see M. Kakihana 40/41 (1990) 641
Torge, M., see M.D. Ingram 40/41 (1990) 671
Torres-Treviño, G., see A. Garcia 40/41 (1990) 13
Tsai, P.P., see M. Greenblatt 40/41 (1990) 444
Tsubaki, Y., see Y. Ikuma 40/41 (1990) 258
Tsuboi, S., see M. Tatsumisago 40/41 (1990) 828
Tsuchida, E., see N. Kobayashi 40/41 (1990) 491
Tsuchida, E., see H. Ohno 40/41 (1990) 655
Tsuji, T., see M. Magara 40/41 (1990) 284
Tsukamoto, K., see Y. Kaga 40/41 (1990) 1000
Tsukamoto, K., F. Uchiyama, Y. Kaga, Y. Ohno, T. Yanagisawa, Y. Takahagi, M.J. Lain, T. Nakajima and A. Monma, A new creamics coating technique for SOFC using the ETL laser spraying process 40/41 (1990) 1003
Tsuneyoshi, K., see A. Sawata 40/41 (1990) 415
Tsutsumi, M., see S. Horiuchi 40/41 (1990) 832
Tuller, H.L., see S.L. Shue 40/41 (1990) 693
Tuller, H.L. and E. Opila, Defects and oxygen diffusion in high T_c superconductors 40/41 (1990) 790
Tuller, H.L., see S.R. Rotman 40/41 (1990) 893

Uchida, H., see T. Yajima 40/41 (1990) 914

Uchida, T., see S. Nariki	40/41 (1990)	95
Uchida, T., see M. Natsuhara	40/41 (1990)	874
Uchimoto, Y., Z. Ogumi and Z. Takehara, Ionically conductive thin polymer films prepared by plasma polymerization	40/41 (1990)	624
Uchiyama, F., see Y. Kaga	40/41 (1990)	1000
Uchiyama, F., see K. Tsukamoto	40/41 (1990)	1003
Ueshima, Y., H. Schmalzried and J. Koepke, Demixing of oxide solid solutions in oxygen potential gradients: Two-phase systems and the morphological stability of the interface	40/41 (1990)	232
Umegaki, T., see K. Yamashita	40/41 (1990)	48
Umegaki, T., see K. Yamashita	40/41 (1990)	918
Ushio, Y., see T. Saito	40/41 (1990)	499
Vaitkus, R., see A. Orliukas	40/41 (1990)	158
Vaitkus, R., A. Kezionis, V. Samulionis, A. Orliukas and V. Skritskij, Electrical and acoustical relaxation in fast ionic conductors	40/41 (1990)	922
Valenzuela, R., see J.T.S. Irvine	40/41 (1990)	220
Van Zomeren, A.A., see D.J. Vischjager	40/41 (1990)	810
Van Zyl, A., see G.W. Schaefer	40/41 (1990)	154
Vashishta, P., R.K. Kalia, G.A. Antonio, J.P. Rino, H. Iyetomi and I. Ebbsjö, Molecular dynamics study of the structure and dynamics of network glasses	40/41 (1990)	175
Vincent, C.A., see P.G. Bruce	40/41 (1990)	607
Vinke, I.C., J. Bakiewicz, B.A. Boukamp, K.J. de Vries and A.J. Burggraaf, Oxygen transport and transfer properties of erbia-stabilized bismuth oxide	40/41 (1990)	886
Vischjager, D.J., A.A. van Zomeren, J. Schoonman, I. Kontoulis and B.C.H. Steele, Ionic conductivity of ceramic superconductors	40/41 (1990)	810
Vohrer, U., see H.-D. Wiemhöfer	40/41 (1990)	433
Wague, A., see G. Mariotto	40/41 (1990)	334
Wakamura, K., K. Hirokawa, H. Shima and K. Takarabe, Phonon spectra in superionic and normal states of the layered crystal $AgCrSe_2$	40/41 (1990)	331
Wakihara, M., see M. Natsuhara	40/41 (1990)	874
Wang, C., see L. Yang	40/41 (1990)	616
Wang, D.Y., Electrode reactions at the surface of oxide ionic conductors	40/41 (1990)	849
Wang, J.C., Model for lithium intercalation into TiS_2	40/41 (1990)	548
Wang, L., see L. Chen	40/41 (1990)	705
Wang, W., see F. Lin	40/41 (1990)	131
Wang, W.-L. and F.-L. Lin, Behaviour of liquid-like conduction for solid state electrolyte on montmorillonite	40/41 (1990)	125
Wang, Z., see L. Yang	40/41 (1990)	616
Wasa, K., see T. Matsushima	40/41 (1990)	825
Watanabe, A., Is it possible to stabilize δ-Bi_2O_3 by an oxide additive?	40/41 (1990)	889
Watanabe, M., see Y. Fujiki	40/41 (1990)	136
Watanabe, M., Y. Fujiki, S. Yoshikado, T. Ohachi and Y. Kudo, Defects inhibiting 1-D ionic conduction in $K_x[Ga_8Ga_{8+x}Ti_{16-x}O_{56}]$	40/41 (1990)	139
Watanabe, M., see S. Yoshikado	40/41 (1990)	142
Watanabe, M., see Y. Onoda	40/41 (1990)	147

Watanabe, M., see Y. Yamaguchi 40/41 (1990) 628
Watanabe, M., see Y. Kato 40/41 (1990) 632
Wen, Z.-Y., Z.-X. Lin and S.-B. Tian, Preparation and ionic conduction property of polycrystalline Eu^{2+} β″-alumina 40/41 (1990) 91
Wendsjö, Å., J.O. Thomas, G.K. Jones and G.C. Farrington, Crystallinity and thermomechanical properties of lead halide–PEO complexes 40/41 (1990) 659
Weppner, W., see G.W. Schaefer 40/41 (1990) 154
Weppner, W., see N. Nicoloso 40/41 (1990) 320
Weppner, W., Surface modification of solid electrolytes for gas sensors 40/41 (1990) 369
Weppner, W., see B.Y. Liaw 40/41 (1990) 428
Weppner, W., see A. Menne 40/41 (1990) 468
West, A.R., see A. Garcia 40/41 (1990) 13
West, A.R., see J.T.S. Irvine 40/41 (1990) 220
West, A.R., see P.G. Bruce 40/41 (1990) 293
West, A.R., see J.T.S. Irvine 40/41 (1990) 896
West, K., see B. Zachau-Christiansen 40/41 (1990) 580
West, K., B. Zachau-Christiansen, T. Jacobsen and S. Skaarup, Layered potassium vanadium oxides as host materials for lithium and sodium insertion 40/41 (1990) 585
West, K., see S. Skaarup 40/41 (1990) 1021
Wiemhöfer, H.-D., D. Schmeißer and W. Göpel, Lead phthalocyanine as a mixed-conducting electrode: Principle and application for O_2 and NO_2 gas sensors 40/41 (1990) 421
Wiemhöfer, H.-D., S. Harke and U. Vohrer, Electronic properties and gas interaction of LaF_3 and ZrO_2 40/41 (1990) 433
Wiemhöfer, H.-D., Coupling between electron and ion transport in mixed conductors 40/41 (1990) 530
Wijesekara, C.N., see M.A.K.L. Dissanayake 40/41 (1990) 23
Worrell, W.L. and Q. Liu, Development of an extended-life oxygen sensor for iron and steel melts 40/41 (1990) 761
Wu, W., see Q. Liu 40/41 (1990) 456
Wu, W., see S. An 40/41 (1990) 750

Xiao, Y., see L. Chen 40/41 (1990) 705
Xin, L., see L. Chen 40/41 (1990) 705
Xue, R., see L. Chen 40/41 (1990) 495
Xue, R., see L. Chen 40/41 (1990) 705

Yajima, T., H. Iwahara, H. Uchida and K. Koide, Relation between proton conduction and concentration of oxide ion vacancy in $SrCeO_3$ based sintered oxides 40/41 (1990) 914
Yamaoka, H., see T. Awano 40/41 (1990) 324
Yamada, M., see T. Saito 40/41 (1990) 499
Yamada, S., S. Yoshida and M. Kitao, Infrared absorption of colored and bleached films of tungsten oxide 40/41 (1990) 487
Yamaga, N., see A. Yasuda 40/41 (1990) 476
Yamaguchi, S., Y. Iguchi and A. Imai, Ionic conduction in divalent hexa-aluminates and gallates with β-alumina structure 40/41 (1990) 87
Yamaguchi, S., see K. Terabe 40/41 (1990) 111
Yamaguchi, Y., S. Aoki, M. Watanabe, K. Sanui and N. Ogata, Ionic conduction of poly[γ-methoxy-tri(ethylene oxide)-L-glutamate] dissolving various alkali metal salts 40/41 (1990) 628

Yamaki, J., see H. Ohtsuka	40/41 (1990)	964
Yamamoto, K., see K. Kamigaki	40/41 (1990)	815
Yamamoto, O., see R. Kanno	40/41 (1990)	576
Yamamoto, O., see T. Itoh	40/41 (1990)	620
Yamamoto, Y., see Y. Saito	40/41 (1990)	72
Yamamura, Y., see T. Kanbara	40/41 (1990)	955
Yamamura, Y., see K. Takada	40/41 (1990)	988
Yamanaka, S., K. Yoshioka and M. Hattori, Unusual ionic conductivities of hydrothermally prepared $MZr_2(PO_4)_3$ (M=Na, K)	40/41 (1990)	43
Yamashita, K., T. Nojiri, T. Umegaki and T. Kanazawa, Na^+ superionic conductors of glass-ceramics in the system Na_2O–Re_2O_3–P_2O_5–SiO_2 (Re=rare-earth elements)	40/41 (1990)	48
Yamashita, K., H. Owada, T. Umegaki, T. Kanazawa and K. Katayama, Protonic conduction in yttrium-substituted hydroxyapatite ceramics and their applicability to H_2–O_2 fuel cell	40/41 (1990)	918
Yamazoe, N., see N. Matayoshi	40/41 (1990)	440
Yamazoe, N., see N. Miura	40/41 (1990)	452
Yanagisawa, T., see K. Tsukamoto	40/41 (1990)	1003
Yancheva, B., see G. Staikov	40/41 (1990)	103
Yang, H., R. Huq and G.C. Farrington, Conductivity in PEO-based Zn(II) polymer electrolytes	40/41 (1990)	663
Yang, L., J. Lin, Z. Wang, C. Wang, R. Zhou and Q. Liu, Effects of plasticizers on properties of poly(ethylene oxide) complex electrolytes	40/41 (1990)	616
Yang, L.S., Z.Q. Shan and Y.D. Liu, The characteristic of polyaniline polymer electrolyte in solid state lithium battery	40/41 (1990)	967
Yang, S., see L. Chen	40/41 (1990)	705
Yankulov, P.D., see G. Staikov	40/41 (1990)	103
Yasuda, A., N. Yamaga, K. Doi and S. Kusanagi, Electrochemical characteristics of the planar electrochemical carbon monoxide sensor with a perfluorosulfonate ionomer film	40/41 (1990)	476
Yazami, R. and T. Nakajima, The lithium diffusion into graphite intercalation compounds with vanadium and titanium fluorides	40/41 (1990)	557
Yazami, R. and A. Hamwi, A reversible electrode based on graphite fluoride prepared at room temperature for lithium intercalation	40/41 (1990)	982
Yazami, R., see C. Hérold	40/41 (1990)	985
Yokogawa, Y., see Y. Ikuma	40/41 (1990)	258
Yokokawa, H., see N. Sakai	40/41 (1990)	394
Yokokawa, H., N. Sakai, T. Kawada and M. Dokiya, Thermodynamic analysis on interface between Perovskite electrode and YSZ electrolyte	40/41 (1990)	398
Yokokawa, H., see T. Kawada	40/41 (1990)	402
Yokoyama, M., see K. Kimura	40/41 (1990)	666
Yonashiro, K., see T. Tomoyose	40/41 (1990)	213
Yoneda, N., see S. Nariki	40/41 (1990)	95
Yoneda, N., see H. Kawase	40/41 (1990)	448
Yonezawa, Y., see E. Iguchi	40/41 (1990)	795
Yoshiasa, A., see K. Koto	40/41 (1990)	288
Yoshiasa, A., H. Maeda, T. Ishii and K. Koto, EXAFS studies on anharmonic thermal vibrations in AgI	40/41 (1990)	341

Yoshiasa, A., see H. Maeda	40/41 (1990)	345
Yoshiasa, A., see T. Moriga	40/41 (1990)	357
Yoshida, M., see T. Matsushima	40/41 (1990)	825
Yoshida, S., see S. Yamada	40/41 (1990)	487
Yoshikade, S., see Y. Onoda	40/41 (1990)	147
Yoshikado, S., see Y. Fujiki	40/41 (1990)	136
Yoshikado, S., see M. Watanabe	40/41 (1990)	139
Yoshikado, S., T. Ohachi, I. Taniguchi, M. Watanabe, Y. Onoda and Y. Fujiki, Contribution of the thermal treatment to the ionic conductivity of the one-dimensional superionic conductors $A_xGa_8Ga_{8+x}Ti_{16-x}O_{56}$ (A=K, Rb)	40/41 (1990)	142
Yoshimura, M., see Y. Ikuma	40/41 (1990)	258
Yoshioka, K., see S. Yamanaka	40/41 (1990)	43
Yu, H.-J., see Z.-X. Lin	40/41 (1990)	59
Yugami, H., A. Koike, A. Nakajima, M. Ishigame and T. Suemoto, Site-selective spectroscopy of Eu^{3+} in YSZ and Y^{3+}-doped CeO_2	40/41 (1990)	316
Zachau-Christiansen, B., K. West, T. Jacobsen and S. Atlung, Lithium insertion in oxide spinels	40/41 (1990)	580
Zachau-Christiansen, B., see K. West	40/41 (1990)	585
Zendejas, M.A., see C. Lane	40/41 (1990)	53
Zhou, R., see L. Yang	40/41 (1990)	616
Zhou, T., see S. An	40/41 (1990)	750
Zurwellen, D., see K. Funke	40/41 (1990)	275

SUBJECT INDEX

2phenothiazine-3I_2 cathode, 993

Ac conductivity, 142
Acoustical relaxation, 922
Activated reaction evaporation, 815
Addition of LiX, 27
Additive coloring, 180
Adsorption, 121
Ag^{2-} center, 700
Ag β''-alumina, 822
AGGTO, 142
Ag–PI cell, 993
α-helical structure, 628
Alkali conductor, 139
Alkali metal ion, 648
Alkali metals, 563
Alkali metal salt, 655
Aluminate, 87
Amine, 563
Ammonium paratungstate, 460
Ammonium perchlorate, 651
Amorphous superionic conductor, 705
Amperometric, 472
Anharmonic vibration, 341, 345
Anionic conduction, 929
Anisotropic transport, 802
Anode material, 402, 942
Antiphase domain, 362
Apatite ceramics, 918
Attenuation coefficient, 922
Auxiliary electrode, 773, 776

β''-alumina, 63, 91, 227, 328, 334
β-alumina, 83, 87, 95, 99, 103, 107, 118, 236, 328, 754
  direct synthesis, 154
Battery, 375, 967
Binary system, 23
Biosensor, 440
Bismuth-based superconductor, 832
Bismuth cuprates, 785
Bismuth oxide, 886, 929
Bis-perfluoro-acyl-imide, 959
Blast furnace, 743, 779
Boundary layer, 27
Brownian motion
  fractional, 196

Calcium aluminate, 896
Calcium fluoride, 874
Calcium titanate, 544
Caterpillar mechanism, 300
Cathode, 993
  TMAI, 483
Cathode material, 576, 589
Cell current, 822
Ceramic coating, 1003
Ceria, 942
Chalcogenide glass, 175
Charged lattice gas, 184
Charge transfer, 849
Chemical bond, 3
Chemical diffusion, 535
Chemical diffusion coefficient, 802, 974, 978
Chemisorption, 1009
Chlorine sensor, 468
Chromium sensor, 770
Clathrate, 906
Clay mineral, 125, 131
Cohesive energy, 795
Collaborate research, 758
Collective mode, 216
Color center, 324
Computer simulation, 224
Conduction mechanism, 671
  ion glass, 702
Conductivity, 34, 95, 705, 900
  enhancement, 27, 72
  measurement, 934, 938
Conductor, 444
Constant-phase-angle, 196
Continuous measurement, 761
Copper vanadate spinel, 576
Correlation factor, 184
CO sensor, 476
Cross-sensiting, 468
Crystal growth, 83, 136
Crystallization, 828
Crystallography, 83
Crystal structure, 95, 567, 934, 938
Cumulant expansion, 341, 345
Current interruption method, 878
Cyclic voltammetry, 103, 982

Defect, 802
Defect clustering, 293
Defect formation energy, 18
Defect structure, 139, 790
Dehydrogenation, 1017

Demixing, 232
Deuterium, 519
Dielectric permittivity, 158
Diffused space-charge layer, 1025
Diffusion, 53, 167, 171, 184, 258, 300, 303
 coefficient, 284, 802
 mode, 213
Dimensionally stable electrode, 525
Dipping-pyrolysis, 448
Discharge capacity, 553
Disordered structure, 187
Dispersant, 72
Dispersion relation, 213
Domain wall motion, 220
Doping, 985
Double layer, 266
 capacitance, 548
Dynamical mechanical analysis, 659

ECD, 499
EGA, 255
Electrical conductivity, 59, 111, 158, 239, 874
Electrical resistivity, 840
Electrochemical coloration, 487
Electrochemical oxidation, 388
Electrochemical sensor, 476
Electrochromic, 383
 device, 491, 495
 property, 487
Electrochromium, 375
Electrode, 262
 activation, 878
 configuration, 886
 effect, 320
 potential, 415
 process, 103
 reaction, 849
Electrogravimetric analysis, 255
Electrolysis, 519
Electron conductivity, 269, 718, 750, 802
Electron diffraction, 362
Electron microprobe, 236
Energy transfer, 63
Enzyme immobilized sensor, 440
ESCA, 709
ESR spectra, 700
Ethylene oxide–propylene oxide copolymer, 612
Europium, 91
Eutectic composite solid electrolyte, 1025
EXAFS, 288, 341, 345

Far-infrared spectroscopy, 331
Fast ion conducting glass, 671, 693, 702, 709, 714
Fast Na^+ conductor, 676
Fermi-level work function, 433
Ferrite, 448
Fiber, 828
Fission-produced noble metal, 996
Fluid model, 216
Fluorination of graphite, 982
Fluorine doping, 832
Fluorite, 258
Flux growth, 136
Frenkel–Kontorova model, 224
FTIR, 107
Fuel cell, 918

Gallate, 87
Gallotitanogallate, 142, 147, 150
Galvanic cell, 807
Galvanic chlorine sensor, 463
Gas sensor, 369, 452, 480, 1009
Gels, 111
Gibbs energy, 807
Glass, 595, 671, 693, 702, 718
 ceramics, 48
 conductor, 680, 684, 689
 structure, 709, 714
Glucose sensor, 440
Grain boundary conductivity, 942
Grain boundary resistivity, 869
Graphite, 557

Heat capacity, 572
Heterogeneous coping, 1017
Hole concentration, 843
Hopping motion, 200
Hopping rate, 184
Hot metal, 737, 773, 776, 779
Humidity, 651
Humidity sensor, 444, 448, 460
Hydrogen production, 544
Hydrothermal synthesis, 43

Impedance
 spectroscopy, 115, 822, 926
 study, 882
Infrared absorption, 910
Interaction, 205
Intercalation, 3, 557, 563
Interface, 463
Interface HTSC/electrolyte, 822
Interface morphology, 232
Interfacial polarization, 262
Interstitial silver ion, 266
Ion conducting glass, 175, 689
Ion exchange, 83, 115
Ion hopping, 509
Ionic bonding, 795
Ionic conductivity, 23, 31, 38, 43, 67, 76, 83, 91, 121, 162, 180, 227, 509, 648, 671, 684, 802, 889, 934, 938
 copper, 341
 enhancement, 1025
 lithium, 13, 375, 1021

oxide, 926
oxygen, 810, 893
proton, 255
silver, 696, 709, 714, 955, 988
Ionic conductor, 79, 906
Ionic motion, 250, 275, 284, 308
Ionic substitution, 59
Ionic transport, 236, 530, 595
Iron, 758
Iron and steelmaking, 737, 764
Iron oxide, 926
Iron telluride, 284
Irradiation (X- and Y-ray), 324
Irreversible thermodynamics, 530
IR spectra, 125, 705
Isotope effects, 857

Jump relaxation, 200

KDP-ferroelectric family, 863
KGGTO, 139

Lanthanum chromite, 394
Larger oxide, 3
Laser spraying process, 1003
Lattice energy, 628
Lead halide, 659
Lead phtalocyanine, 421
Li^+ glass, 693
Linear transport, 232
Line-narrowing effect, 316
Liquid-like model, 209
LISICON, 293
Lithiation mechanism, 576
Lithium alloy, 525
Lithium battery, 553, 576, 585, 589
Lithium insertion, 580, 585, 970, 974
Lithium intercalation, 548, 560, 589, 978, 982
Lithium iodide, 624
Lithium ion conductor, 13, 34, 38
Lithium–lead blends, 754
Lithium perchlorate, 607, 612, 632, 666, 967
Lithium salt, 620
Lithium sensor, 754
Lithium sulfate, 23
Lithium sulphate carbonate, 1025
Lithium titanium phosphate, 38
Lithium tungsten, 23
Local structure, 288
Long range interaction, 187
Low-energy excitations, 341
Low oxygen activity, 746
Luminescence, 118, 316, 328

Magnesia stabilized zirconia, 942
Magnetic impedance, 220
Magnetoplumbite, 87
Magnetron sputtering, 825
Mechanical properties, 375
Mechanism, 648
Methane, 388
Mixed alkali effect, 227, 725
Mixed conductor, 239, 421, 530, 535, 539, 544, 942, 1009
Mixed former effect, 684, 689
Mixed phase solid electrolyte, 1021
Moisture effect, 43
Molecular dynamics, 53, 171, 300, 303, 509
simulation, 175
Molten steel, 746, 761, 770
Monte Carlo method, 224
Monte Carlo study, 184
Mössbauer effect, 284
Multitarget, 825
Multivalent cation conductor, 79

NASICON, 48, 59, 72
related compounds, 350
Network glasses, 175
Neutron diffraction, 341
glass, 702
Niobium vanadium oxide, 978
NMR, 147, 279, 308, 645
Noninteracting, 167

One-dimensional conductor, 139, 142, 147, 150
Optical phonon-plasmon mode, 213
Oxidation, 996
Oxidative vaporization, 996
Oxide, 910, 914
Oxide additives, 889
Oxide ion conductor, 896
Oxide spinel, 580
Oxygen chemical potential, 415
Oxygen diffusion, 790
Oxygen electrode, 421
Oxygen partial pressure, 743
Oxygen probe, 743
Oxygen reduction, 103
Oxygen sensor, 428, 472, 746, 761
Oxygen transport, 886
Oxygen vacancy, 893

Palladium, 519
Path probability method, 725
Pattern recognition, 1009
Pbβ''-alumina, 115
Percolation, 725
Perfluorosulfonate ionomer film, 476
Perovskite electrode, 398
Phase transition, 31, 76, 572, 676, 807, 906
Photo-battery, 955
Photo EMF, 272
Photo-induced current, 272
Photoluminescence, 180, 266

Plasma, 624
CVD, 553
spray, 1000
Platinum, 411
Platinum/YSZ, 849
Point defects, 180
Polarization, 402, 878
method, 269
Polar solvents, 121
Polyaniline, 967
Polyether, 637
Poly(ethylene glycol), 616
Poly(ethylene)glycol dimethyl ether, 663
Poly(ethylene oxide), 607, 612, 616, 620, 632, 641, 651, 659, 663, 967
Polymer, 655, 1021
Polymer electrolyte, 375, 480, 491, 624, 637, 645, 655, 985
Polyparaphenylene, 985
Poly(propylene oxide), 620, 645, 648
Poly(vinylchloride), 666
Poly[γ-methoxy-tri(ethylene oxide)-L-glutamate], 628
Potassium ferrite, 95
Powder neutron diffraction, 293
Priderite, 150
Process control, 737, 764
Proton, 444
Proton conduction, 857
Proton conductor, 131, 452, 460, 863, 910, 914, 918
Proton diffusion, 857
Proton transport mechanism, 863
PZT, 67

Quasielastic light scattering, 250
Quaternary compounds, 154

Raceway, 743
Radius of carrier, 655
Raman, 99, 150, 334, 900
scattering, 357
Randomly blocked sites, 167
Rechargeable battery, 988
Relaxation, 244
mode, 213
Repulsive interaction, 795
Rock salt-type layer, 785

Seebeck coefficient, 840
Self-avoiding walks, 192
SEM, 107
Sensor, 456, 696, 737
Silicon sensor, 773, 776, 779
Silicon transfer, 743
Silver borotungstate glass, 483
Silver vanadium bronze, 988
Single crystal, 83, 836
activation energy, 162
film, 815
Sinterability, 38
Site-selective spectroscopy, 316
Smart window, 383
Sodium aluminate-gallate, 83
Sodium β-alumina, 111
Sodium fluoride, 874
Sodium insertion, 585, 970
Sodium salt, 641
SOFC, 398, 1003
interconnector, 394
Sol–gel
method, 111
process, 970
Solid electrolyte, 79, 87, 99, 456, 696, 896, 1021
cell, 483
sensor, 764
Solid electrolyte–electrode interface, 266
Solid oxide, 499
fuel cell, 388, 402, 407, 411, 415, 942, 1000
Solid polymer electrolyte, 959
Solid solution, 13
Solid state
sensor, 758
Solid state battery, 964, 988
Solid state fluoride, 472
Solubility limit, 874
Specific heat, 18
Spectroscopic study, 1009
Spin-coating, 903
Spray pyrolysis, 502
Stabilized zirconia, 411, 502, 750
Steelmaking, 758
Strontia, 942
Strontium cerate, 914
Structure, 63, 175, 702, 785
change, 111
Superconductor, 785, 790, 799, 807, 819, 825, 828, 836, 840, 843
Superionic conductor, 53, 171, 224, 244, 250, 316, 331
Superionic glass, 279
Superlattice, 216, 303
Surface, 312
composition, 799
diffusion, 849
modification, 369
spectroscopy, 433
Synthesis, 567

Tantalum oxide, 499
Temperature dependence, 641
Ternary system stabilizer, 929
Tertiary butyl chloride, 1017
Tetragonal zirconia, 869, 882
TGA, 255
Thermal electromotive force, 779
Thermal expansion, 18, 394
Thermal shock resistance, 750

Thermal stability, 889
Thermodynamics analysis, 398
Thin film, 502, 680, 819, 825, 903, 964
Thin film sensor, 448
Time-dependent correlation functions, 192
Titanium sulfide, 548
TPD, 107
Transparency glass, 487
Transport, 187, 607
 number, 632
Tri(2-methoxyethoxy)vinylsilane, 624
Tungsten bronze, 560
Tungsten oxide, 487
Tunnel structures, 567
Two-phase solid solution, 232
TZP, 428

Ultrasonic attenuation, 205, 209
Ultrasonic measurement, 705
Ultrasonic velocity, 922
Ultra-thin film, 815
Universal dynamic response, 200
UO_2SO_4-based compounds, 676
Uric acid sensor, 440
UV light irradiation, 666

Vacuum calcination, 799
Valence change, 539
Valence state, 239
Vanadium fluoride, 557
Vanadium pentoxide, 974
Vapor deposition
 organometallic, 819
Verneuil method, 836
Vibrational spectra, 175
Viscosity, 828
Voltammetry, 131
Voltammogram, 125

Warburg impedance, 262
Weak electrolyte model, 595
Williams-Landel-Ferry type equation, 628
William–Watts function, 200
WO_3-based complex oxides, 567

XAFS, 350
XANES, 539
XPS, 312
X-ray
 absorption, 785
 diffraction, 815
 structure analysis, 357

YSZ, 320
Yttria stabilized zirconia, 926
Yttria–zirconia, 312
Yttrium aluminum garnet (YAG), 893

Zeolites, 121
Zinc halide, 663
Zinc zirconium phosphate, 79
Zirconia, 428, 746, 761, 770, 773, 776, 942
Zirconium phosphate, 43

COMPOUND INDEX

α-Ag_2Te, 171, 300
Ag_2O–P_2O_5–MoO_3 glasses, 714
Ag_2SO_4, 456
Ag_2(S–Te), 362
Ag_2Te, 209
Ag_3SI, 205
$Ag_6I_4WO_4$, 472, 955, 988
AgCl, 463, 468
$AgCrSe_2$, 331
AgI, 341
AgI–Ag_2O–B_2O_3, 279, 700
AgI–Ag_2O–B_2O_3–WO_3, 483
AgI–Ag_2O–P_2O_5 system, 705, 709
$Ag_xCu_{1-x}Br$, 18
$Ag_xV_2O_5$, 955, 988
$Al_2Si_4O_{10}(OH)_2$, 125
APT.$5H_2O$, 255, 460
α-$RbAg_4I_5$, 269, 272
$A_xGa_8Ga_{8+x}Ti_{16-x}O_{56}$, 142, 147

Ba–CO_3 bond, 799
β-Ag_3SI, 275
β-AgI, 275
$BaTiO_3$, 72
β-$Ca(PO_3)_2$, 444
$Bi_{0.7}Pb_{0.3}SrCa_{1.8}Cu_2O_{8+x}$, 810
Bi_2O_3, 886
Bi_2O_3–Y_2O_3–PbO system, 929
$Bi_2Sr_2Ca_2Cu_3O_{10}$, 785
$Bi_2(Sr,Ca)_4Cu_3O_x$, 832
$Bi_{2-x}Pb_xSr_2Ca_2Cu_3O_y$, 843
$Bi_{2-x}Pb_xSr_2CaCu_2O_y$, 843
$Bi_4V_2O_{11}$, 934
Bi–Ca–Sr–Cu–O glass, 828
$(Bi,Pb)_2Sr_2Ca_2Cu_3O_y$, 840
$BiPbO_2F$, 938
Bi–Sr–Ca–Cu–O, 825, 836
$(Bi-Gd)_2O_3$, 288
β-$Na_{0.33}V_2O_5$, 970

$Ca_{12}Al_{14}O_{33}$, 896
CaF_2, 874
CaO, 394
$CaTi_{1-x}Fe_xO_{3-\delta}$, 544
CeO_2, 316
CeO_2–$Tb_2O_{3.5}$, 539
$(CF)_n$, 982
CF_xM_y, 982
$(CH_3)_4NOH \cdot 5H_2O$, 906

Cs[$Gd_8Ga_{8+x}Ti_{16-x}O_{56}$], 136
$Cu_{1.8}S$, 337
$Cu_{1.8}Se$, 337
CuBr, 345
CuI, 337
Cu–O bond, 795
Cu–O plane, 825
Cu_xS, 308
Cu_xSe, 308

δ-Bi_2O_3, 889

Er_2O_3, 886

$Fe_{1.33}Te_2$, 284
$FeMoO_4Cl$, 563

γ-$LiAlO_2$, 13
GoAgI-$20Ag_2O$-$20(0.1B_2O_3$-$0.9WO_3$, 483
γ-$RbAg_4I_5$, 266

H_2S, 468
Ho_3TaO_7, 258
$HTaTeO_6$, 900
$HTaWO_6$, 900

$K_3V_5O_{14}$, 585
KV_3O_8, 585
K_x[$Ga_8Ga_{8-x}Ti_{16-x}O_{56}$], 139
K[$Gd_8Ga_{8+x}Ti_{16-x}O_{56}$], 136

$La_{1-x}Sr_xFeO_{3-\delta}$, 239
$La_{1-x}Sr_xMnO_{3-y}$, 535
La_2O_3, 394
$(La,Ca,Sr)MnO_3$, 398
$LaCoO_3$, 407, 1000
LaF_3, 433, 440
$LaMnO_3$, 407
$(La,Sr)_2CuO_{4-x}$, 790
Li_2O:P_2O_5:Nb_2O_5, 680
$Li_2O \cdot B_2O_3 \cdot P_2O_5 \cdot Li_2SO_4$, 689
$Li_2O \cdot P_2O_5 \cdot MoO_3$, 684
Li_2O–LiCl–CaO–B_2O_3, 693
Li_2O–V_2O_5–SiO_2, 964
Li_2SO_4–Li_2CO_3, 1025
Li_2SO_4–Li_2CO_3 eutectic, 27
Li_2SO_4–Li_2WO_4 system, 23
$Li_3Fe_2(PO_4)_3$, 158
$Li_3Zn_{0.5}GeO_4$, 293

$Li_{4.2}M_xSi_{1-x}O_4$, 34
Li–Al, 525
$LiCF_3SO_3$, 616
$LiClO_4$, 612, 632, 666, 967
$LiCuVO_4$, 576
LiI, 624
LiM_2O_4 (M=Ti,V,M), 580
$LiNaSO_4$, 162
LiW_3O_9F, 560
$Li_xV_2O_5$, 974
$LnBa_2Cu_3O_{7-y}$, 840

MAg_4I_5 (M=K,Rb), 324
$MgMeAl_{10}O_{17}$, 154
MgO–PSZ, 750
MgSZ, 947
$MZr_2(PO_4)_3$, 43

$Na_{1-x}K_x$ β-alumina, 118
Na_2O–Re_2O_3–P_2O_5–SiO_2, 48
Na_2SO_4–$MgSO_4$ system, 31
$(Na_2XO_4)_nUO_2SO_4$, 676
$Na_{3+x}Zr_{2-x}Yb_xSi_2PO_{12}$ system, 59
$Na_3Zr_{0.5}Co_{0.5}FeP_3O_{12}$, 350
$Na_3Zr_{0.5}Fe(II)_{0.5}Fe(III)P_3O_{12}$, 350
$Na_4Zr_2Si_3O_{12}$, 67, 72
$Na_{8-z}M^zP_2O_9$, 76
$Na^+_{1.67-2x}Ba^{2+}_xMg_{0.67}Al_{10.33}O_{17}$, 53
$NaCF_3SO_3$, 641
$NaCrS_2$, 572
NaF, 874
$NaZr_2P_3O_{12}$, 350
$Nb_{2-n}V_nO_5$, 978
Ni–O film, 495
$(Ni,Zn)Fe_2O_4$, 220

Pb β″-alumina, 115
Pb-,Na-β-alumina, 334
PbPc, 421
$PbSnF_4$, 472
$PbX_2(PEO)_{16}$, 659
PEO:$LiClO_4$, 607
PEO–NH_4ClO_4, 651
PPO–$NaCF_3SO_3$, 645

$RbAg_4I_5$, 180, 272
Rb–Ba β-alumina, 99
$Rb[Gd_8Ga_{8+x}Ti_{16-x}O_{56}]$, 136
$RMs(Al/Ga)_{10}O_{17}$, 87
$RMs(Al/Ga)_{14}O_{25}$, 87

$SrCeO_3$, 910, 914
SrO, 947
$SrZrO_3$, 910

Ta_2O_5, 499
$Ta_2O_5.nH_2O$, 903
TeO_2–V_2O_5–MoO_3 system, 718
TiF^{2-}_6, 557
TiS_2, 548, 553

V_2O_5, 974
V_2O_5–Fe_2O_3 glass, 589
V_6O_{13}, 959
VF^-_6, 557

WO_3, 383, 487, 491, 567

$Y_{0.8}Ta_{0.2}O_{1.7}$, 258
$Y_3Al_5O_{12}$, 893
Y_3TaO_7, 258
$YBa_{1.99}K_{0.01}Cu_3O_{7-x}$, 810
$YBa_2Cu_3O_{7-\delta}$, 790, 822
$YBa_2Cu_3O_{7-x}$, 535, 810, 815, 819
$YBa_2Cu_3O_x$, 795, 799, 802, 807
Y–CO_3 bond, 799

Zn-$Al_2Si_4O_{10}(OH)_2$, 131
Zn–Zr–PO_4 system, 79
$(Zr\text{-}Cd)_2O_3$, 357
ZrO_2, 316, 433, 746, 761, 770, 776
ZrO_2+$ZrSiO_4$, 773
ZrO_2–CeO_2–Gd_2O_3–Y_2O_3, 942